

SHARP

SERVICE MANUAL

SE00LC32LE210

Issued: 16th September 2010

LED LCD COLOUR TELEVISION

DVB-T / DVB-C (HDTV), PAL B/G, I / SECAM B/G, D/K, L/L' SYSTEM COLOUR TELEVISION

MODELS

LC-32LE210E/RU

LC-32LE210EB/RUB

LC-32LE220E/RU

LC-32LE220EB/RUB

LC-32LB220E/RU

LC-32LB220EB/RUB

LC-32LS220E/RU

LC-32LS220EB/RUB



In the interests of user safety (required by safety regulations in some countries) the set should be re-stored to its original condition and only parts identical to those specified should be used.

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SHARP CORPORATION

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ELECTRICAL SPECIFICATIONS

Specifications

Item			LCD COLOUR TV, Model: LC-32LE210E, LC-32LB220E, LC-32LE220E, LC-32LS220E.
LCD Panel			32" TFT LCD LED TV
Resolution			6.220.800 dots (1.920 x 1.080 pixels)
Video Colour System			PAL/SECAM/NTSC 3.58/NTSC 4.43/PAL 60
TV Functions	TV Standard	Analogue	CCIR (B/G, I, D/K, L/L')
		Digital	DVB-T (2K/8K OFDM)(H.264), DVB-C (Only Lx220)
	Receiving Channel	VHF/UHF	E2–E69 ch, F2–F10 ch, I21–I69 ch, IR A–IR J ch (Digital: IR A ch–E69 ch)
		CATV	Hyper-band, S1–S41 ch
	TV-Tuning System		Auto Preset 999 ch: non-Nordic / 9999 ch: Nordic (ATV: 99 ch), Auto Label, Auto Sort
	STEREO / BILINGUAL		NICAM/A2
Viewing angles			H: 176°, V: 176°
Audio Amplifier			10 W x 2
Speaker			(30 mm x 100 mm) x 2
Terminals	TV Antenna		UHF/VHF 75 Ω Din type (Analogue & Digital)
	SERVICE		Ø 3.5 mm jack
	SCART		SCART (AV input, RGB input, TV output, Y/C input)
	PC INPUT		VGA (D-Sub 15pin), Ø 3.5mm jack
	COMPONENTS		COMPONENT IN: Y/PB(CB)/PR(CR), RCA (AUDIO R/L)
	HDMI1		HDMI, Ø 3.5mm jack
	HDMI2		HDMI, Ø 3.5mm jack
	HDMI3		HDMI, Ø 3.5mm jack
	AV		RCA connector (AV input)
	MEDIA PLAYER/ TIME-SHIFT/ USB REC		USB 2.0 HOST (A type)
	DIGITAL AUDIO OUTPUT		RCA S/PDIF digital audio output.
	C. I. (Common Interface)		EN50221, R206001, CI+ specification (Only Lx220)
	Headphones		Ø 3.5 mm jack (Audio output)
OSD language			Czech, Danish, Dutch, English, Estonian, Finnish, French, German, Greek, Hungarian, Italian, Latvian, Lithuanian, Norwegian, Polish, Portuguese, Russian, Slovak, Slovene, Spanish, Swedish, Turkish, Ukrainian, Byelorussian, Romanian.
Power Requirement			AC 220–240 V, 50 Hz
Power Consumption (IEC62087 Method)			85 W (0.25 W (Standby))
Weight			8,5 Kg (Without stand), 9,8 Kg (With stand)
Operating Temperature			0 °C to +40 °C

Environmental Specifications

		32"
*1 On-Mode (W) (HOME MODE)		63 W
*2 Energy-Save-Mode (W)	ECO	48 W
*3 Standby-Mode (W)		0.25 W
*4 Off Mode (W)		0.18 W
*5 Annual Energy Consumption (kWh)		92 kWh
*6 Annual Energy Consumption Energy-Save-Mode (kWh)	ECO	71 kWh

*1 Measured according to IEC 62087 Ed. 2.

*2 For further information about the Energy Save function, please see related pages in this operation manual.

*3 Measured according to IEC 62301 Ed. 1.

*4 Measured according to IEC 62301 Ed. 1.

*5 Annual energy consumption is calculated on the basis of the On-Mode (HOME MODE) power consumption, watching TV 4 hours a day, 365 days a year.

*6 Annual energy consumption is calculated on the basis of the Energy-Save-Mode power consumption, watching TV 4 hours a day, 365 days a year.

Cautions regarding use in high and low temperature environments

- When the unit is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the unit will recover when the temperature returns to normal.
- Do not leave the unit in a hot or cold location. Also, do not leave the unit in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction. Storage temperature: –20°C to +60°C.

- As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

IMPORTANT SERVICE SAFETY PRECAUTION

Service work should be performed only by qualified service technicians who are thoroughly familiar with all safety checks and the servicing guidelines which follow:

WARNING

1. For continued safety, no modification of any circuit should be attempted.
2. Disconnect AC power before servicing.

CAUTION: FOR CONTINUED PROTECTION AGAINST A RISK OF FIRE REPLACE ONLY WITH SAME TYPE F101 (T3.15AH / 250V)

BEFORE RETURNING THE RECEIVER (Fire & Shock Hazard)

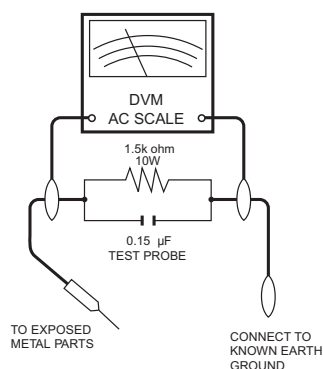
Before returning the receiver to the user, perform the following safety checks:

1. Inspect all lead dress to make certain that leads are not pinched, and check that hardware is not lodged between the chassis and other metal parts in the receiver.
2. Inspect all protective devices such as non-metallic control knobs, insulation materials, cabinet backs, adjustment and compartment covers or shields, isolation resistor-capacitor networks, mechanical insulators, etc.
3. To be sure that no shock hazard exists, check for leakage current in the following manner.

- Plug the AC cord directly into a 220~240 volt AC outlet. (Do not use an isolation transformer for this test).
- Using two clip leads, connect a 1.5k ohm, 10 watt resistor paralleled by a 0.15 μ F capacitor in series with all exposed metal cabinet parts and a known earth ground, such as electrical conduit or electrical ground connected to an earth ground.
 - A true RMS reading multimeter should be used for this test, especially where the equipment uses a switch mode power supply which may result in very non-sinusoidal leakage current.
 - Connect the resistor connection to all exposed metal parts having a return to the chassis (antenna, metal cabinet, screw heads, knobs and control shafts, escutcheon, etc.) and measure the AC voltage drop across the resistor.

All checks must be repeated with the AC cord plug connection reversed. (If necessary, a nonpolarized adaptor plug must be used only for the purpose of completing these checks.)

Any reading of 1.05V peak (this corresponds to 0.7 mA. peak AC.) or more is excessive and indicates a potential shock hazard which must be corrected before returning the monitor to the owner.



SAFETY NOTICE

Many electrical and mechanical parts in LCD television have special safety-related characteristics. These characteristics are often not evident from visual inspection, nor can protection afforded by them be necessarily increased by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual; electrical components having such features are identified by "⚠".

For continued protection, replacement parts must be identical to those used in the original circuit. The use of a substitute replacement parts which do not have the same safety characteristics as the factory recommended replacement parts shown in this service manual, may create shock, fire or other hazards.

PRECAUTIONS FOR USING LEAD-FREE SOLDER

1 Employing lead-free solder

"ALL PWB" of this model employs lead-free solder. The LF symbol indicates lead-free solder, and is attached on the PWBs and service manuals. The alphabetical character following LF shows the type of lead-free solder.

Example:

LFa

Sn-Ag-Cu

Indicates lead-free solder of tin, silver and copper.

LFn

Sn-Ag-Ni

Indicates lead-free solder of tin, silver and nickel.

2 Using lead-free wire solder

When fixing the PWB soldered with the lead-free solder, apply lead-free wire solder. Repairing with conventional lead wire solder may cause damage or accident due to cracks.

As the melting point of lead-free solder (Sn-Ag-Cu) is higher than the lead wire solder by 40°C, we recommend you to use a dedicated soldering bit, if you are not familiar with how to obtain lead-free wire solder or soldering bit, contact our service station or service branch in your area.

3 Soldering

As the melting point of lead-free solder (Sn-Ag-Cu) is about 220°C which is higher than the conventional lead solder by 40°C, and as it has poor solder wettability, you may be apt to keep the soldering bit in contact with the PWB for extended period of time. However, Since the land may be peeled off or the maximum heat-resistance temperature of parts may be exceeded, remove the bit from the PWB as soon as you confirm the steady soldering condition.

Lead-free solder contains more tin, and the end of the soldering bit may be easily corroded. Make sure to turn on and off the power of the bit as required.

If a different type of solder stays on the tip of the soldering bit, it is alloyed with lead-free solder. Clean the bit after every use of it.

When the tip of the soldering bit is blackened during use, file it with steel wool or fine sandpaper.

Be careful when replacing parts with polarity indication on the PWB silk.

Lead-free wire solder for servicing.

Part No.	★	Description	Code
ZHNDai123250E	J	φ0.3mm 250g(1roll)	BL
ZHNDai126500E	J	φ0.6mm 500g(1roll)	BK
ZHNDai12801KE	J	φ1.0mm 1kg(1roll)	BM

END OF LIFE DISPOSAL



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a separate collection system for these products.

A. Information on Disposal for Users (private households)

1. In the European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if you purchase a similar new one.

*) Please contact your local authority for further details.

If your used electrical or electronic equipment has batteries or accumulators, please dispose of these separately beforehand according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the homepage of www.swico.ch or www.sens.ch.

B. Information on Disposal for Business Users

1. In the European Union

If the product is used for business purposes and you want to discard it:

Please contact your SHARP dealer who will inform you about the take-back of the product. You might be charged for the costs arising from take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard of this product, please contact your local authorities and ask for the correct method of disposal.



Pb

The battery supplied with this product contains traces of Lead.

For EU: The crossed-out wheeled bin implies that used batteries should not be put to the general household waste! There is a separate collection system for used batteries, to allow proper treatment and recycling in accordance with legislation. Please contact your local authority for details on the collection and recycling schemes.

For Switzerland: The used battery is to be returned to the selling point.

For other non-EU countries: Please contact your local authority for correct method of disposal of the used battery.

Each time you press $\frac{\sqrt{\omega}}{1/1/1/1}$, the mode switches as illustrated in the following tables:

Signal	Selectable items
Stereo	STEREO, MONO
Bilingual	CH A, CH B, CH AB
Monoaural	MONO

*CADTV only Lx220 series.

1	USB terminal	6	Antenna input terminal	11	HDMI 3 (HDMI/DVI)
2	COMPONENTS / AV terminals	7	DIGITAL AUDIO OUTPUT terminal	12	AUDIO input for DVI and PC.
3	HEADPHONES jack	8	SERVICE connector (jack 3.5mm)	13	COMMON INTERFACE slot
4	SCART (AV/RGB, Y/C Input) terminal	9	HDMI 1 (HDMI/DVI)	14	AC INPUT terminal
5	PC input	10	HDMI 2 (HDMI/DVI)		

Operation Manual (Continued)

Quick guide

Initial installation overview

Follow the steps below one by one when using the TV for the first time. Some steps may not be necessary depending on your TV installation and connection.

1 Preparation

- Connect an antenna cable to the antenna terminal (Page 8).
- If necessary, insert a CA card into the CI slot to watch scrambled broadcasts (Page 8).
- Connect the AC cord to the TV (Page 8).

2 Power on and run the auto installation

- Turn on the power using on the TV (Page 10).
- Run the initial auto installation (Page 9).
 - Language and country setting

3 Watch TV

- Congratulations! Now you can watch TV.** If necessary, adjust the antenna to attain maximum signal reception (Page 9).

Connect external devices

- Connect external devices such as a DVD player/recorder as instructed (Pages 14 and 15).
- Connect external audio devices such as speakers/amplifier as instructed (Pages 14 and 15).

Start searching channels

TV Location setting

Home Store

Product shape varies in some countries.

Preparation

Inserting the batteries

Before using the TV for the first time, insert two supplied "AA" size zinc-carbon batteries. When the batteries become depleted and the remote control unit fails to operate, replace the batteries with new "AA" size batteries.

- Hold in the tab on the battery cover and pull the cover towards the direction of the arrow.
- Insert two supplied "AA" size batteries.
 - Place batteries with their terminals corresponding to the (+) and (-) indications in the battery compartment.
- Close the battery cover.

CAUTION

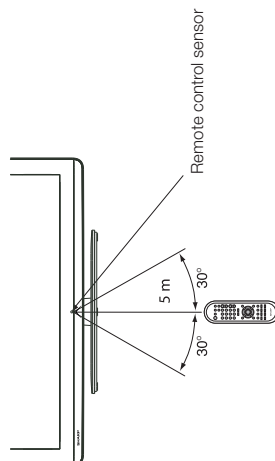
- Improper use of batteries can result in chemical leakage or explosion. Be sure to follow the instructions below.
- Do not mix batteries of different types. Different types of batteries have different characteristics.
 - Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries or cause chemical leakage in old batteries.
 - Remove batteries as soon as they have worn out. Chemicals that leak from batteries can cause a rash. If you find any chemical leakage, wipe thoroughly with a cloth.
 - The batteries supplied with this product may have a shorter life expectancy due to storage conditions.
 - If you will not be using the remote control unit for an extended period of time, remove the batteries from it.

Note on disposing batteries:

The batteries provided contain no harmful materials such as cadmium, lead or mercury. Regulations concerning used batteries stipulate that batteries may no longer be thrown out with the household rubbish. Deposit any used batteries free of charge into the designated collection containers set up at commercial businesses.

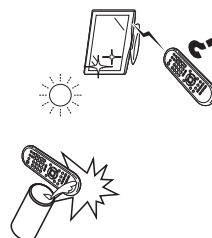
Using the remote control unit

Use the remote control unit by pointing it towards the remote control sensor. Objects between the remote control unit and sensor may prevent proper operation.



Cautions regarding the remote control unit

- Do not expose the remote control unit to shock. In addition, do not expose the remote control unit to liquids, and do not place it in an area with high humidity.
- Do not install or place the remote control unit under direct sunlight. The heat may cause deformation of the unit.
- The remote control unit may not work properly if the remote control sensor of the TV is under direct sunlight or strong lighting. In such cases, change the angle of the lighting or the TV, or operate the remote control unit closer to the remote control sensor.



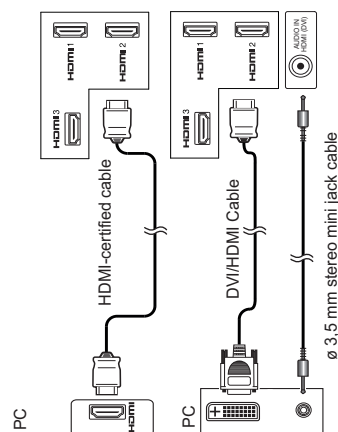
Operation Manual (Continued)

Connecting a PC

PC connection

HDMI (DVI) Connection

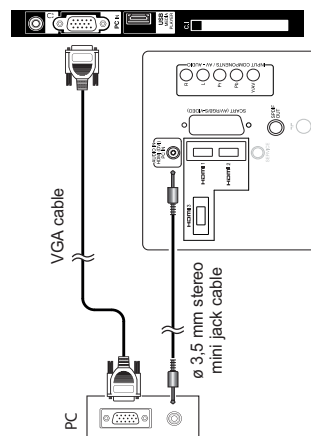
HDMI 1, 2 or 3



After connection

- If after connecting a PC to the TV through a HDMI cable, the audio does not run, connect a mini stereo connector of ϕ 3.5mm between TV and PC as indicated in the previous drawing.
- When a PC is connected to the TV with a DVI cable, it will be necessary to connect a mini stereo connector of ϕ 3.5mm of the TV to PC as indicated in the previous drawing.

Analogue Connection



NOTE

- You can also select an item by pressing **4** on the remote control unit.
- Connect the PC before making adjustments.
- Selectable picture size may vary with input signal type.
- The "Aspect ratio" adjustment is only available for analogue signals through the "PC IN" terminal.

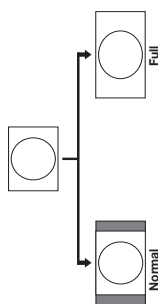
Item	
Normal 4:3	Keeps the original aspect ratio in a full screen display
Full	An image fully fills the screen
Dot by Dot	Displays an image with the same number of pixels on the screen

Selecting the picture size

You can select the picture size.

- 1 Press **MENU** on the remote control.
- 2 Press **▼** key to select "Aspect ratio".
- 3 Press **►** key to select the desired item.

Example



Connecting external devices

Before connecting ...

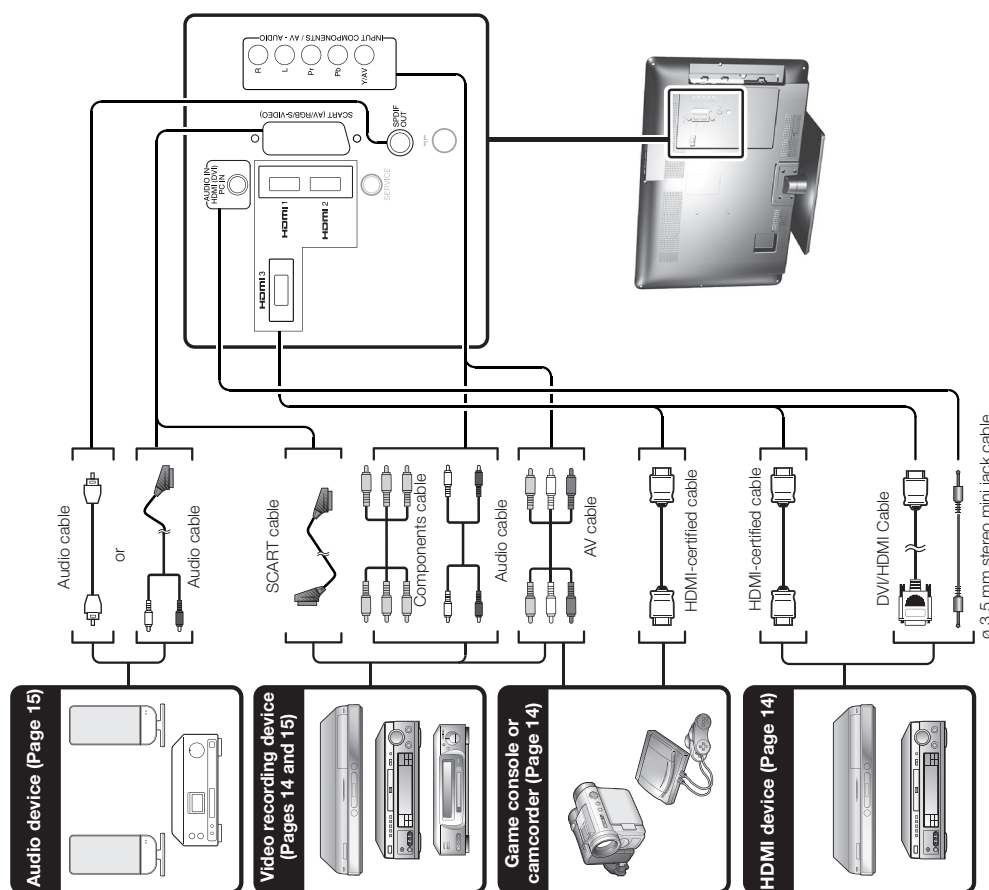
- Be sure to turn off the TV and any devices before making any connections.
- Firmly connect a cable to a terminal or terminals.
- Carefully read the operation manual of each external device for possible connection types. This also helps you get the best possible audiovisual quality to maximise the potential of the TV and the connected device.

Introduction to connections

The TV is equipped with the terminals as shown below. Find the cable corresponding the TV's terminal and connect the device.

NOTE

- The cables illustrated in pages 13, 14, and 15 are commercially available items.



Operation Manual (Continued)

Appendix

Troubleshooting

Problem	Possible Solution
• No power.	- Check if you pressed on the remote control unit. - Is the indicator on the TV lights up red, press . - Is the AC cord disconnected? - Check if you pressed on the TV.
• The TV cannot be operated.	External influences such as lightning, static electricity, etc., may cause improper operation. In this case, operate the TV after first turning off the power, or unplugging the AC cord and re-plugging it in after one or two minutes.
• Remote control unit does not operate.	- Are batteries inserted with polarity (+, -) aligned? - Are batteries worn out? (Replace with new batteries.) - Are you using it under strong or fluorescent lighting? - Is a fluorescent light illuminating to the remote control sensor?
• Picture is cut off.	- Is the image position correct? - Are screen mode adjustments (Aspect ratio) such as picture size made correctly? (Page 23.)
• Strange colour, light colour, or dark colour, or colour misalignment.	- Adjust the picture tone. - Is the room too bright? The picture may look dark in a room that is too bright. - Check the "PICTURE" setting (Page 19).
• Power is suddenly turned off.	- The TV's internal temperature has increased. Remove any objects blocking the vent or clean. - Is the "Sleep Timer" set? Select "Off" from the "TIME" menu (Page 20). - Is "No Signal Off" or "No operation Off" activated?
• No picture.	- Are connections to external equipment correct? (Pages 13, 14 and 15) - Is the input signal type selected correctly after connection? (Page 10) - Is the correct input source selected? (Page 10) - Is the picture adjustment correct? (Pages 19) - Is the antenna connected properly? (Page 8)
• No sound.	- Is the volume too low? - Make sure that headphones are not connected. - Check if you pressed on the remote control unit.
• The TV sometimes makes a cracking sound.	This is not a malfunction. This happens when the cabinet slightly expands and contracts according to changes in temperature. This does not affect the TV's performance.

Cautions regarding use in high and low temperature environments

- When the TV is used in a low temperature space (e.g. room, office), the picture may leave trails or appear slightly delayed. This is not a malfunction, and the TV will recover when the temperature returns to normal.
 - Do not leave the TV in a hot or cold location. Also, do not leave the TV in a location exposed to direct sunlight or near a heater, as this may cause the cabinet to deform and the LCD panel to malfunction.
- Storage temperature: -20 °C to +60 °C.

Information on the software license for this product

Software composition

The software included in this product is comprised of various software components whose individual copyrights are held by SHARP or by third parties.

Software developed by SHARP and/or third part

The copyrights for the software components and various relevant documents included with this product that were developed or written by SHARP are owned by SHARP and are protected by the Copyright Act, international treaties, and other relevant laws. This product also makes use of freely distributed software and software components whose copyrights are held by third parties.

Fixing the TV on a wall

- This TV should be fixed on a wall only with the wall fix bracket available from SHARP (Page 5). The use of other wall fix brackets may result in an unstable installation and may cause serious injuries.**
- Fixing the LCD colour TV requires special skills and should only be performed by qualified service personnel. Customers should not attempt to do the work themselves. SHARP bears no responsibility for improper fixing or fixing that results in accident or injury.**
- You can ask qualified service personnel about using an optional bracket to fix the TV on a wall.
- To use this TV fixed on a wall, first remove the adhesive tape at the two locations on the rear of the TV, and then use the screws supplied with the wall fix bracket to secure the bracket to the rear of the TV.
- When you fix the TV on a wall, you should attach the supporting post.

Other useful features

Setting when using external devices

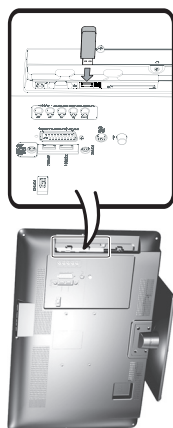
Input source settings



- For selecting the input type of external equipment.
- If no (colour) image is displayed, try changing to another signal type.
 - Check the operations manual of the external equipment for the signal type.

Connecting a USB device (Media Player)

Connect a USB device to the TV as shown below.



- Depending on the USB device, the TV may not be able to recognise the contained data.
- Use only alphanumeric characters for naming files.
- File names over 80 characters (may vary depending on character set) may not be displayed.
- Do not disconnect a USB device or memory card from the TV while transferring files, using the slide show function, when a screen is switching to another or before you exit "MEDIA PLAYER" from the "INPUT SOURCE" menu.
- Compatibility with USB hard disc connection.
- Do not connect and disconnect a USB device from the TV repeatedly.

MEDIA PLAYER function

After selecting Media Player, the TV loads USB device files, and shows the following screen:



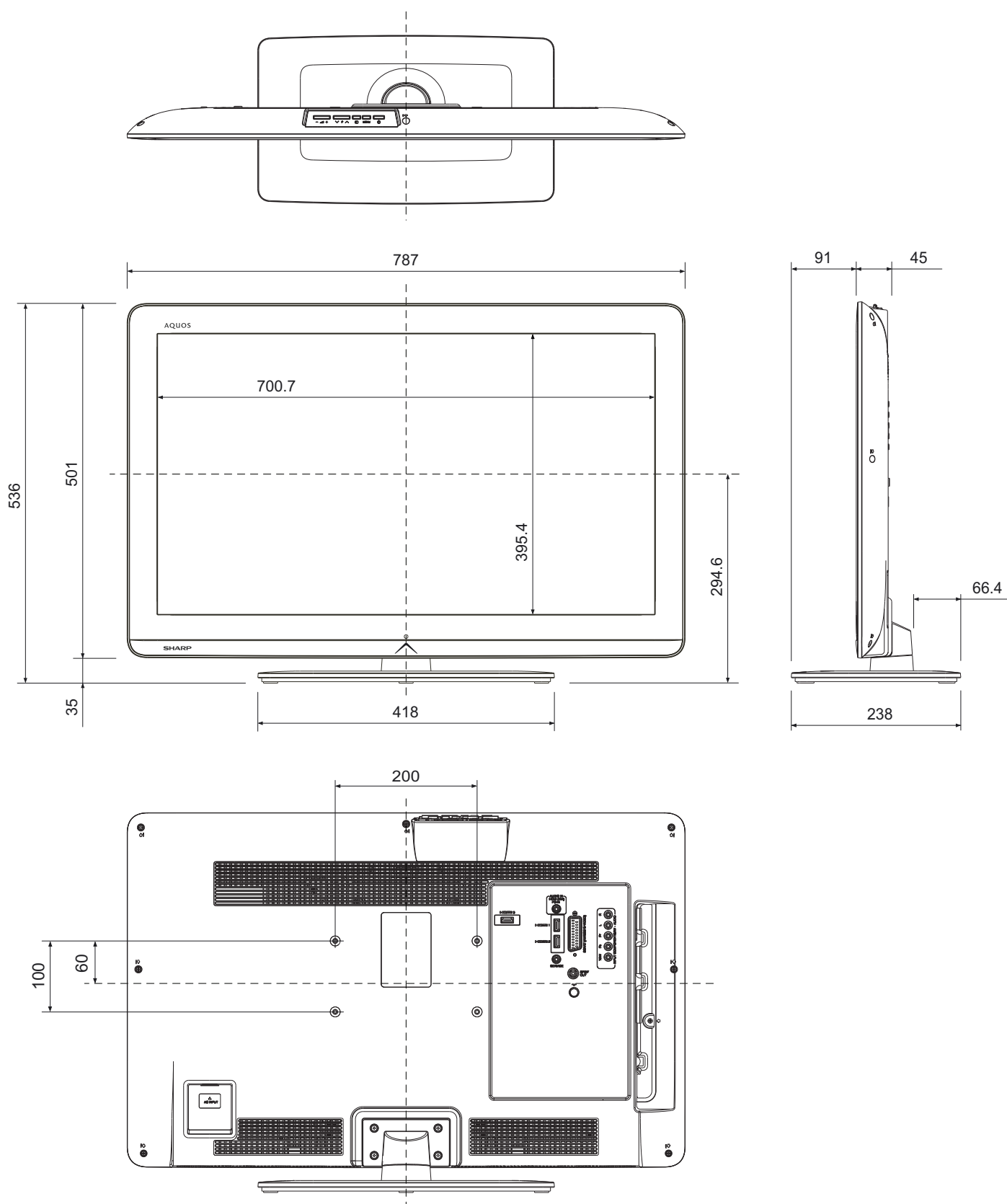
- Pressing buttons you can change between different modes: **PHOTO**, **MUSIC**, **MOVIE** or **TEXT**. Press **OK** to select the option you want to reproduce.
- Press to select the folder where you want to search the files and then press **OK**.

PHOTO mode

You can reproduce photos with JPEG (*.JPE, *.JPG), BMP and PNG format on your TV. Several kinds of reproduction are possible.

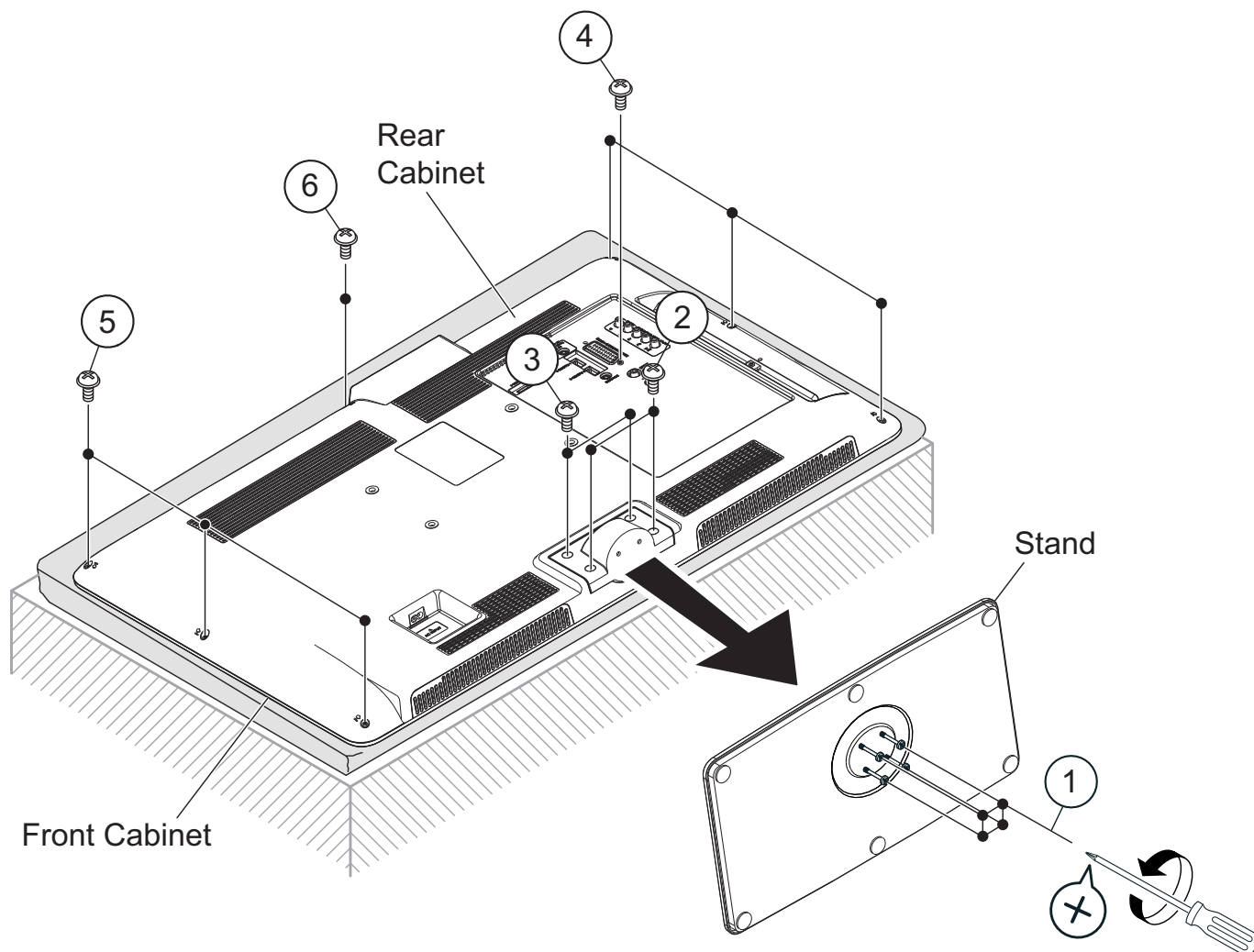
- Select **PHOTO** mode and press **OK**.
- Select the file you want to display on full screen with buttons and press **OK** to start the viewing.

DIMENSIONS



REMOVING OF MAJOR PARTS

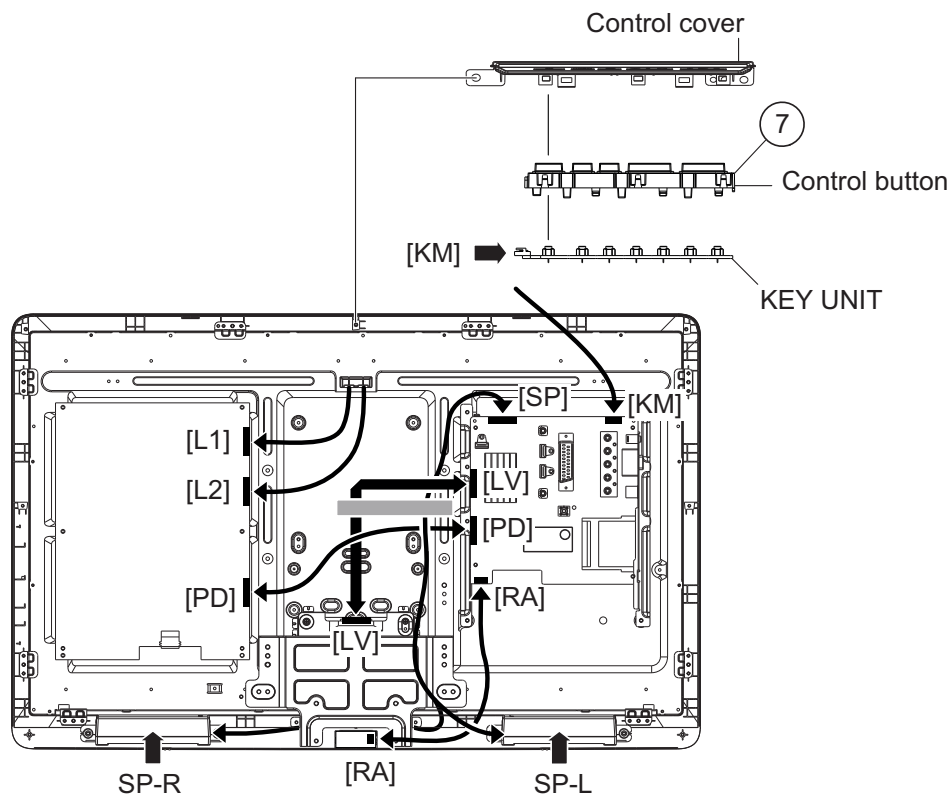
1. To slacken the 4 lock screws ① and detach the Stand.
2. Remove the 2 lock screws ②, 2 lock screws ③, 1 lock screws ④, 6 lock screws ⑤, 1 lock screw ⑥ and detach the Rear Cabinet.



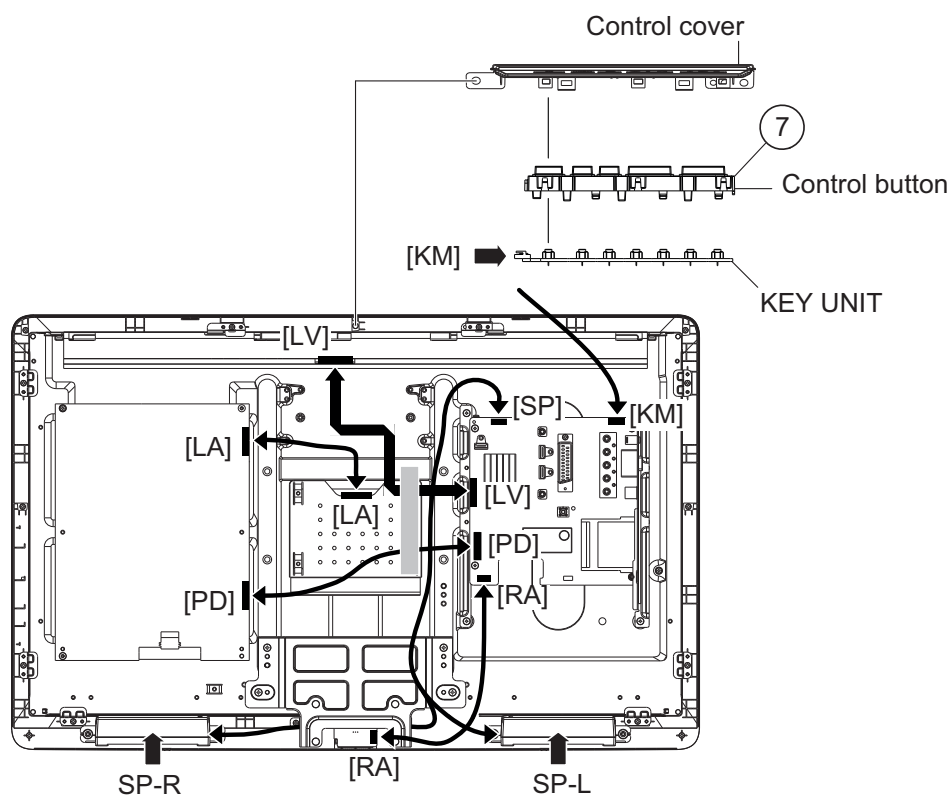
Removing of major parts (Continued)

3. Disconnect all the connectors from all the PWBs.
4. Remove the Key Unit Ass'y ⑦.

LC32LE210E & LC32Lx220E models:



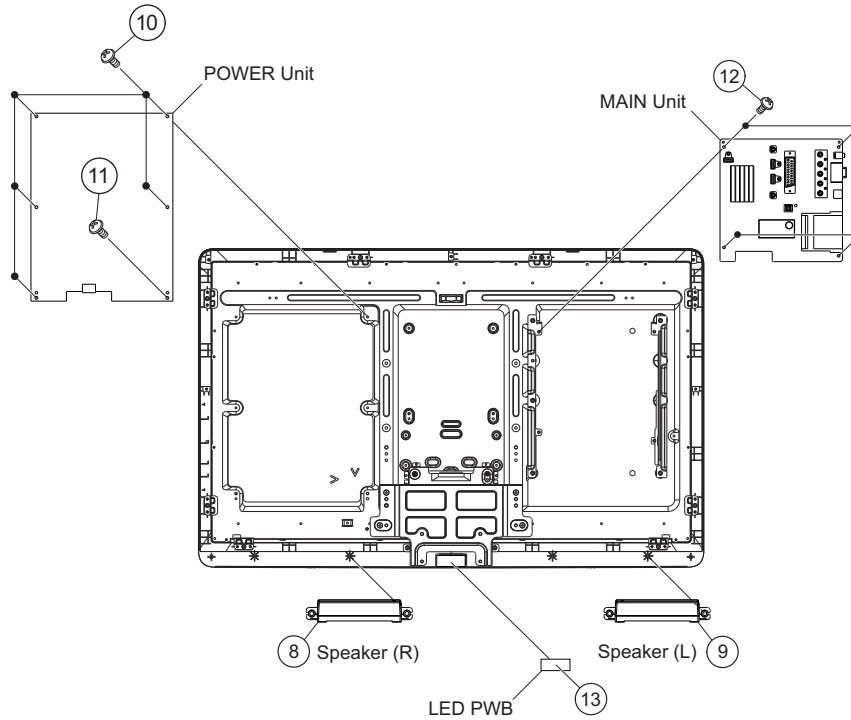
LC32LE210EB & LC32Lx220EB models:



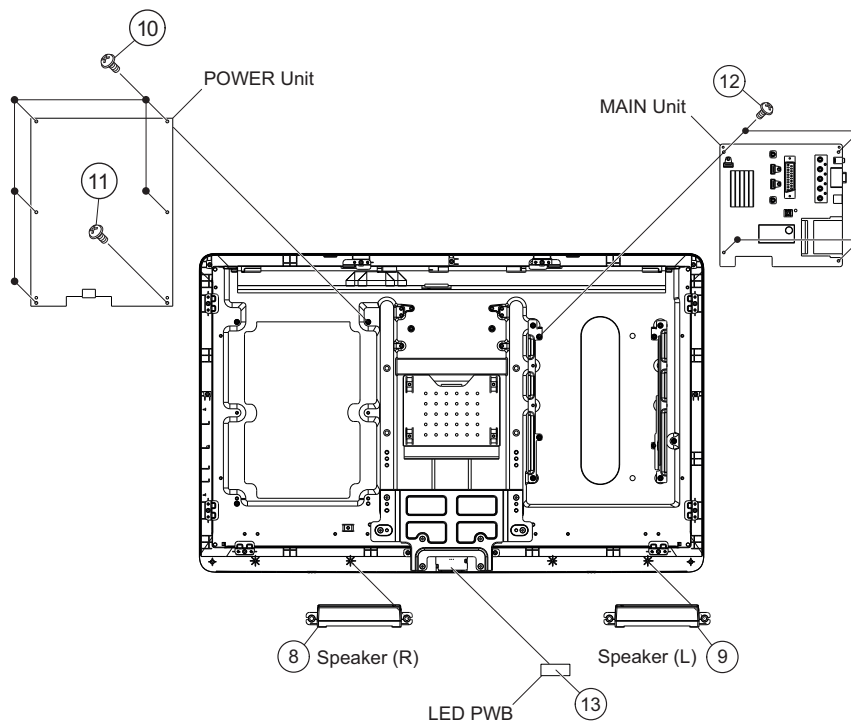
Removing of major parts (Continued)

5. Remove the speaker (R) ⑧ , (L) ⑨ .
6. Remove the 5 lock screws ⑩ , 1 lock screw ⑪ and detach the POWER Unit.
7. Remove the 4 lock screws ⑫ , and detach the MAIN Unit.
8. Remove the LED PWB ⑬.

LC32LE210E & LC32Lx220E models:



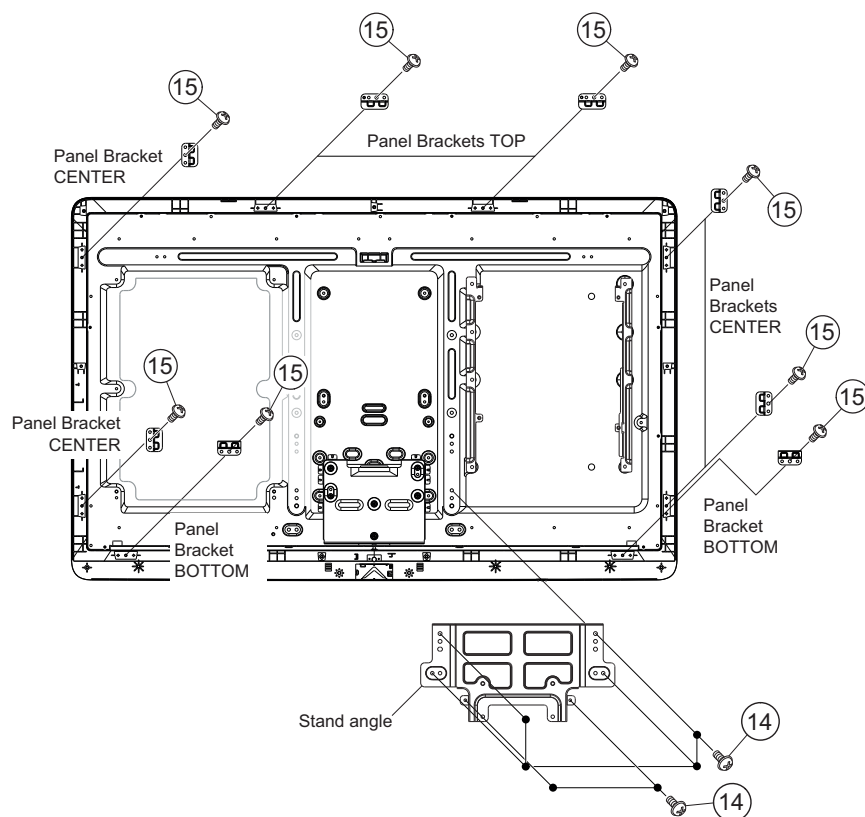
LC32LE210EB & LC32Lx220EB models:



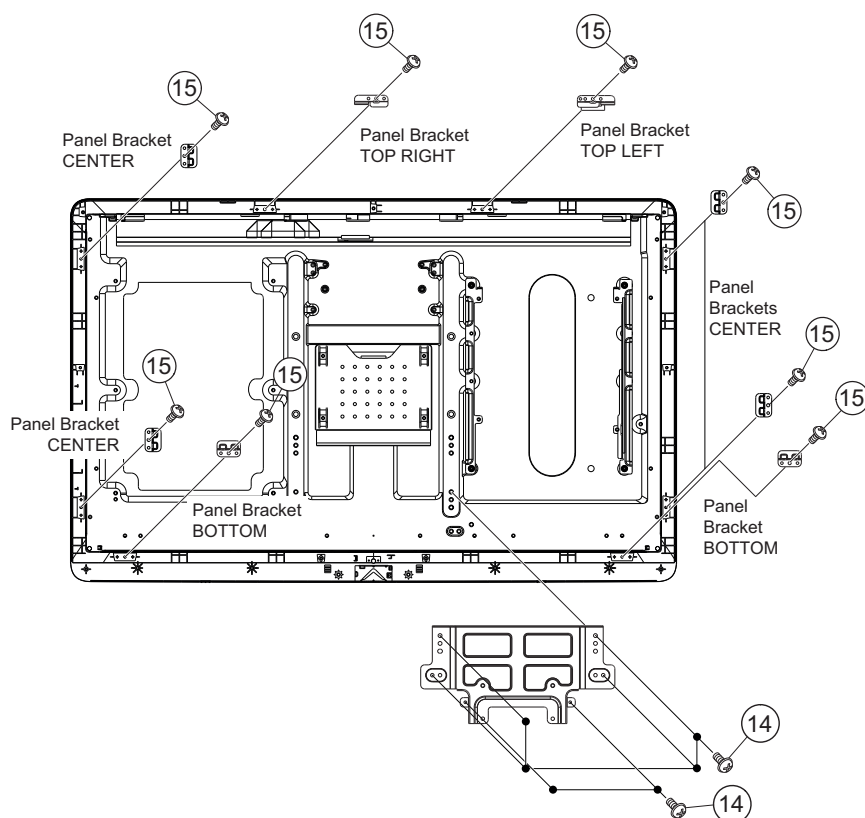
Removing of major parts (Continued)

9. Remove the 6 lock screws ⑭ and detach the stand angle.
10. Remove the 8 lock screws ⑮ and detach the panel brackets.

LC32LE210E & LC32Lx220E models:



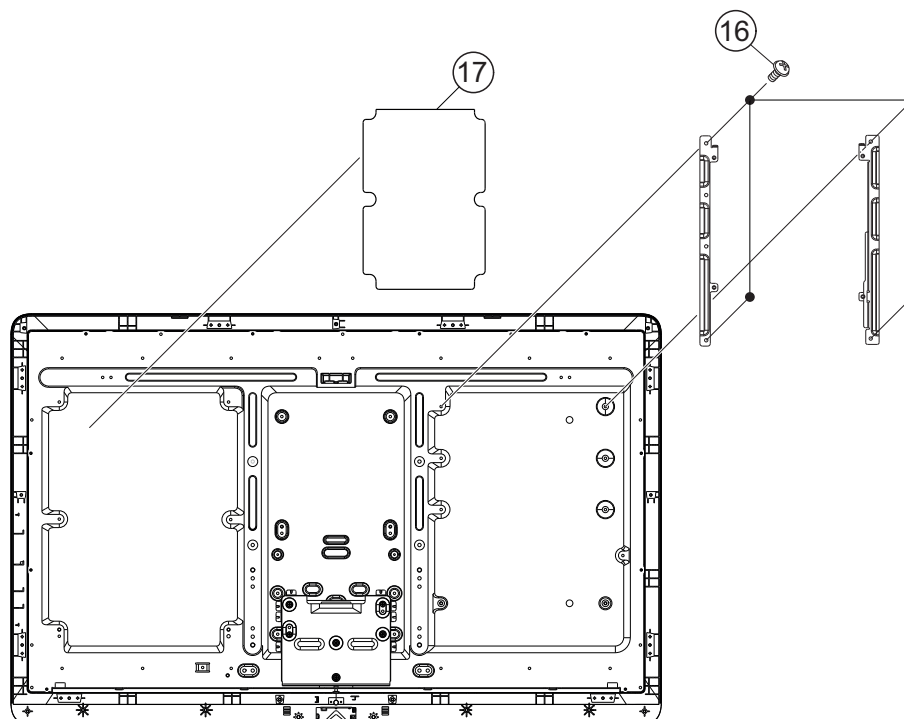
LC32LE210EB & LC32Lx220EB models:



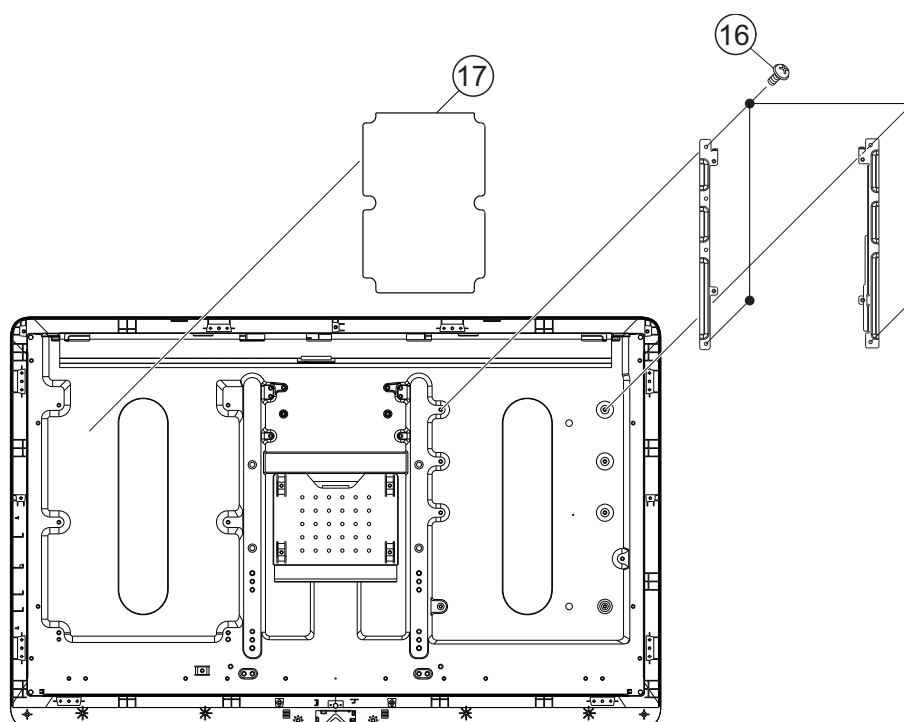
Removing of major parts (Continued)

11. Remove the 4 lock screws ⑩ and detach the angles.
12. Remove the insulation sheet ⑪.

LC32LE210E & LC32Lx220E models:



LC32LE210EB & LC32Lx220EB models:



SERVICE ADJUSTMENTS

1. Adjustment method after PWB and/or IC replacement due to repair

The unit is set to the optimum performance at the time of shipment from the factory.

If any value should become improper or any adjustment is necessary due to the part replacement, make an adjustment according to the following procedure.

1.1. Procure the following units in order to replace the main unit:

MAIN UNIT **DUNTKF639FMxx**

NOTE: [Caution when replacing ICs in the main unit (IC1901, IC1902, IC1902, IC1501, IC1006 and IC1007)]

Before replacing the relevant part, procure the following parts in which the data have been rewritten.

Ref.	Description	Parts code IC + data	Description new IC code for service
IC1901	HDMI EDID 1	RH-IXD236WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_1_EDID
IC1902	HDMI EDID 2	RH-IXD237WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_2_EDID
IC1903	HDMI EDID 3	RH-IXD238WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_3_EDID
IC1501	PC EDID	RH-IXD239WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_PC_EDID
IC1006	HDCP USER SETTINGS	RH-IXD261WJZZY	RH-IXC986WJZZY AND DATA LC32LE2x0E_HDCP_KEY
IC1007 *	FLASH MEMORY	RH-IXD262WJZZY	RH-IXD012WJZZY and LE210_v1.25_PANEL_AUO_BOARD_N1
		RH-IXD263WJZZY	RH-IXD012WJZZY and LE210B_v1.25_PANEL_CMI_BOARD_N1

* For Lx220 models it is not possible replace IC1007. Replace the full Main Unit.

2. Entering and exiting the adjustment process mode. Standard method.

1. By key-unit.

1. Unplug the AC power cord.
2. Press and hold "V-" and " keys, simultaneously, and then plug the AC power cord.
3. "K" appears on the screen.
4. Press and hold "V-" and "P-" keys, simultaneously.
5. "SHARP FACTORY MENU" appears (see Figure 1).
6. Unplug the AC power cord to exit of adjustments process.

2. By own R/C

1. Turn on the TV set.
2. Press ", "2", "5", "8", "0" (the time is limited to 5 sec. approx., for enter this code).
3. "SHARP FACTORY MENU" appears (see Figure 1).
4. Press "OK" on lines 5 ~ 12 to go to submenu.
5. Press "MENU" to return to main menu.
6. Press "END" to exit of adjustments mode.

3. Remote control key operation and description of display in adjustment process mode.

1. key operation

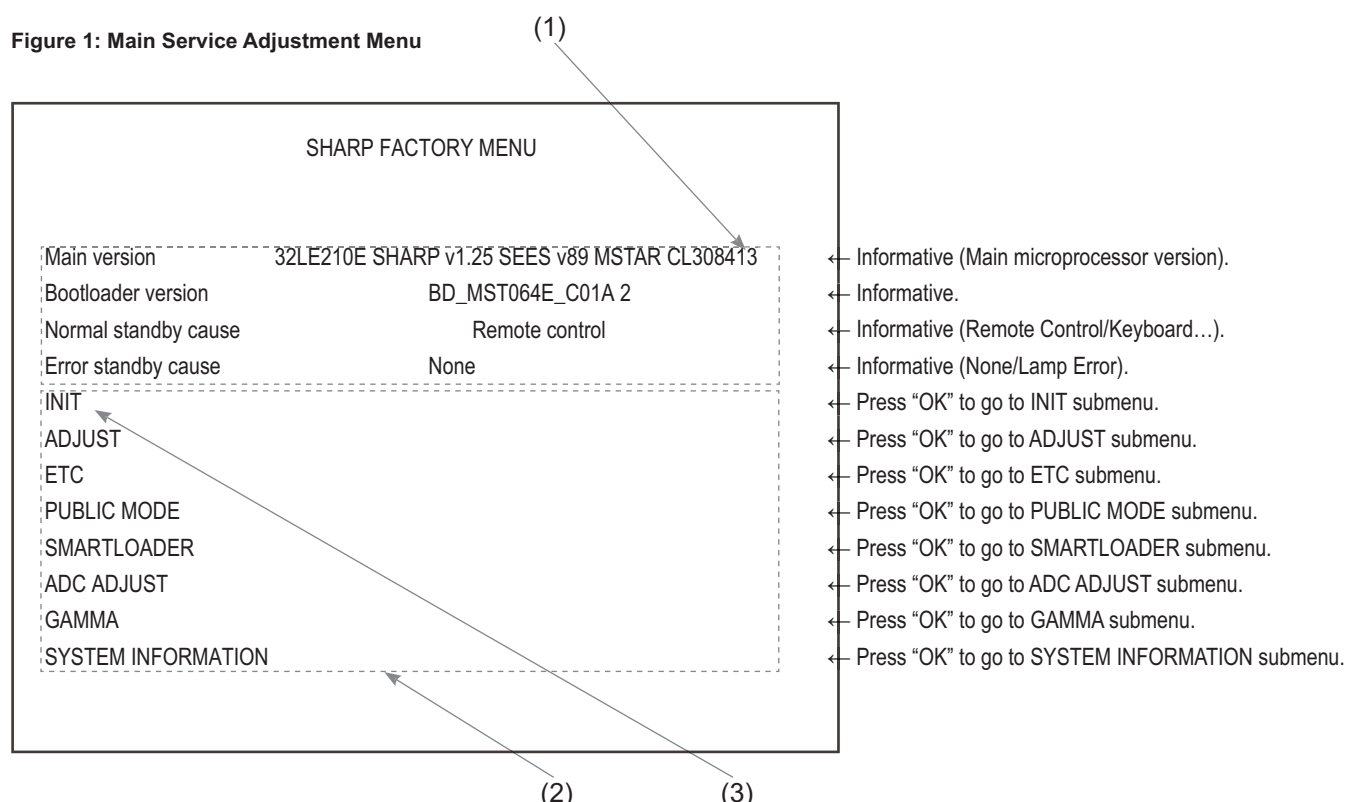
Remote control key	Keyboard unit	Function
Cursor (▼/▲)	P (✓/∧)	Moving an item (line) by one (up/down) on "Sharp Factory Menu" or submenus.
OK		Selecting a submenu on lines 5 to 12 of "Sharp Factory Menu" or executing a function.
Cursor (◀/▶)	V (+/-)	Changing a selected item setting value.
MENU	MENU	Return to "Sharp Factory Menu" from a submenu.

The required input mode should be switched previously to enter the Service Mode.

CAUTION: Use due care in handling the information described here lest the users should know how to enter the adjustment process mode. If the settings are tampered with in this mode, unrecoverable system damage may result.

4. Description of display

Figure 1: Main Service Adjustment Menu



No.	Description	Display specification
(1)	Service Information	Current Software version and others.
(2)	Item name	Submenus to be checked or adjusted (by pressing "OK" button)
(3)	Factory init and Inch setting	Are shown on INIT submenu

5. Adjustment process mode menu

Page	Line	Sub Page	Item	Description	Remarks (adjustment details, etc.)
01/17	[SHARP FACTORY MENU]				
	1		Main Version	32LE210E SHARP v1.25 SEES v89 MSTAR CL308413	Informative only (Main microprocessor version)
	2		Bootloader Version	BD_MST064E_C01A 2	Informative only
	3		Normal Standby Cause	Remote Control / Keyboard...	Informative only
	4		Error Standby Cause	None / Lamp Error	Informative only
	5		INIT	Factory Init Submenu	Press "OK" to enter to Factory Init Submenu
		02/17	Factory Init	EURO	Informative (EURO/RUSSIA/SWEDEN/UK/EAST EUROPE)
			Inch Setting	AV32_T315HW05V3	Panel type
			Center Acutime	0 H 0 M	Backlight ON accumulated Time
			RESET	"OK" Will be displayed	Press "◀" or "▶" to reset Center Acutime
	6		ADJUST	QMAP ADJUST Submenu	Press "OK" to enter to QMAP ADJUST Submenu
		03/17	INPUT SOURCE (1/6)	RF_PAL_BGHI	
			AFEC		Only for Engineering purpose (Please don't use)
			Comb		Only for Engineering purpose (Please don't use)
			SECAM		Only for Engineering purpose (Please don't use)
			SCinit		Only for Engineering purpose (Please don't use)
			CSC	OFF	Only for Engineering purpose (Please don't use)
			CSC_Dither	OFF	Only for Engineering purpose (Please don't use)
			YCdelay	OFF	Only for Engineering purpose (Please don't use)
			PreFilter	OFF	Only for Engineering purpose (Please don't use)
			HSD_Y	ALL PASS1X	Only for Engineering purpose (Please don't use)
			HSD_C	ALL PASS1X	Only for Engineering purpose (Please don't use)
			VSD	OFF	Only for Engineering purpose (Please don't use)
			CTI	CTI_1	Only for Engineering purpose (Please don't use)
		04/17	INPUT SOURCE (2/6)	DTV/ RF/Multimedia ...	
			MemFormat	422MF	Only for Engineering purpose (Please don't use)
			444To422	ON	Only for Engineering purpose (Please don't use)
			PreSNR	OFF	Only for Engineering purpose (Please don't use)
			DNR	NR_OFF	Only for Engineering purpose (Please don't use)
			DNR_Motion	MR_NR	Only for Engineering purpose (Please don't use)
			DNR_Y	OFF	Only for Engineering purpose (Please don't use)
			DNR_MED	OFF	Only for Engineering purpose (Please don't use)
			DNR_C	OFF	Only for Engineering purpose (Please don't use)
			PNR	OFF	Only for Engineering purpose (Please don't use)
			PNR_Y	OFF	Only for Engineering purpose (Please don't use)
			PNR_C	OFF	Only for Engineering purpose (Please don't use)
			PostCCS	OFF	Only for Engineering purpose (Please don't use)
		05/17	INPUT SOURCE (3/6)	DTV/ RF/Multimedia ...	
			PostCCS_Smooth	PCS_6	Only for Engineering purpose (Please don't use)
			420CUP	OFF	Only for Engineering purpose (Please don't use)
			MADi	25_4R	Only for Engineering purpose (Please don't use)
			MADi_Motion	MOT_PMODE	Only for Engineering purpose (Please don't use)
			MADi_ADP3x3	OFF	Only for Engineering purpose (Please don't use)
			MADi_MORPHO	OFF	Only for Engineering purpose (Please don't use)
			MADi_DFK	OFF	Only for Engineering purpose (Please don't use)

Page	Line	Sub Page	Item	Description	Remarks (adjustment details, etc.)
1/17	[SHARP FACTORY MENU]				
	6		ADJUST (continued)	QMAP ADJUST Submenu	Press "OK" to enter to QMAP ADJUST Submenu
	05/17		INPUT SOURCE (3/6)	DTV/ RF/Multimedia ...	
			MADi_SST	OFF	Only for Engineering purpose (Please don't use)
			MADi_Force	OFF	Only for Engineering purpose (Please don't use)
			EODi	OFF	Only for Engineering purpose (Please don't use)
			Film	SD_2	Only for Engineering purpose (Please don't use)
			Film32	OFF	Only for Engineering purpose (Please don't use)
	06/17		INPUT SOURCE (4/6)	DTV/ RF/Multimedia ...	
			Film22	OFF	Only for Engineering purpose (Please don't use)
			DIPF	OFF	Only for Engineering purpose (Please don't use)
			VCLPF	ON	Only for Engineering purpose (Please don't use)
			Spike_NR	S2	Only for Engineering purpose (Please don't use)
			SPF	ON	Only for Engineering purpose (Please don't use)
			SPF_DBK	OFF	Only for Engineering purpose (Please don't use)
			SPF_SNR	E2S1	Only for Engineering purpose (Please don't use)
			SPF_DBK_SNR_MR	ON	Only for Engineering purpose (Please don't use)
			SPF_MR_LPF	LPF3x3	Only for Engineering purpose (Please don't use)
			SPF_SMR	S2	Only for Engineering purpose (Please don't use)
			SPF_NMR_MR	ON	Only for Engineering purpose (Please don't use)
			DMS	S2	Only for Engineering purpose (Please don't use)
	07/17		INPUT SOURCE (5/6)	DTV/ RF/Multimedia ...	
			VSP_Y	SRAM_1_4Tap	Only for Engineering purpose (Please don't use)
			VSP_C	ROM_2121	Only for Engineering purpose (Please don't use)
			VSP_CoRing	OFF	Only for Engineering purpose (Please don't use)
			VSP_DeRing	OFF	Only for Engineering purpose (Please don't use)
			VSP_Dither	OFF	Only for Engineering purpose (Please don't use)
			VSP_PreVBound	OFF	Only for Engineering purpose (Please don't use)
			HSP_Y	SRAM_2_6Tap	Only for Engineering purpose (Please don't use)
			HSP_C	ROM_121	Only for Engineering purpose (Please don't use)
			HSP_CoRing	Y_Coring_1	Only for Engineering purpose (Please don't use)
			HSP_DeRing	OFF	Only for Engineering purpose (Please don't use)
			HSP_Dither	OFF	Only for Engineering purpose (Please don't use)
			HnonLinear	H_1920_0	Only for Engineering purpose (Please don't use)
	08/17		INPUT SOURCE (6/6)	DTV/ RF/Multimedia ...	
			SRAM1	InvSinc4Tc4p4Fc85 Fstop134Apass01Astop50	Only for Engineering purpose (Please don't use)
			SRAM2	InvSinc6Tc4p4Fc94 Fstop134Apass01Astop60	Only for Engineering purpose (Please don't use)
			422To444	ON	Only for Engineering purpose (Please don't use)
			Peaking	1080p	Only for Engineering purpose (Please don't use)
			SwDriver	ALL	Only for Engineering purpose (Please don't use)
			VIP_CSC	OFF	Only for Engineering purpose (Please don't use)
			VIP_CSC_Dither	OFF	Only for Engineering purpose (Please don't use)
			Color	Multimedia_photo_HD	Only for Engineering purpose (Please don't use)
			3x3	OFF	Only for Engineering purpose (Please don't use)
			Display	ALL	Only for Engineering purpose (Please don't use)
			Post_CON_BRI	OFF	Only for Engineering purpose (Please don't use)

Page	Line	Sub Page	Item	Description	Remarks (adjustment details, etc.)
01/17	[SHARP FACTORY MENU]				
	7		ETC	EEP, Autoinstallation, Option, Country, L Error...	Press "OK" to enter to ETC Submenu
		09/17	EEP Clear		Press "▶" to Clear NVM data
			EEP Clear B		Press "▶" to Clear NVM data (except adjustments area).
			Standby cause reset	"OK" will be displayed	Press "▶" to Reset of STANDBY CAUSE.
			Autoinstallation SW	Off	On: Pending to execute on next power on. Off: Not required.
			Pattern	0	Selection of internal pattern from 0 up to 6...
			L Error Reset	0	Press "▶" to LAMP ERR RESET. Initialization of L_ERR.
			L Error Check	On	L_ERR detection. ON: activated. OFF: deactivated.
			I2C OFF	Off	I2C BUS status. On: free BUS. Off: Normal.
			Sharp protocol	On	Remote Control Protocol. On: SHARP Off: MSTAR.
	8		PUBLIC MODE (1/2)	PUBLIC MODE Submenu	Press "OK" to enter to PUBLIC MODE Submenu
		10/17	Power On fixed	Variable	Press "◀" or "▶" to change Variable/Fixed.
			Maximum volume	60	Press "◀" or "▶" to change 0/60.
			Volume fixed	Variable	Press "◀" or "▶" to change Variable/Fixed.
			Volume fixed Level	20	Press "◀" or "▶" to change 0/60.
			RC button	Respond	Press "◀" or "▶" to change Respond/No respond.
			Panel button	Respond	Press "◀" or "▶" to change Respond/No respond.
			Menu button	Respond	Press "◀" or "▶" to change Respond/No respond.
			On screen display	On	Press "◀" or "▶" to change On/Off.
			Input mode start	Normal	Press "◀" or "▶" to change Normal/TV/SCART/...
			Input mode fixed	Variable	Press "◀" or "▶" to change Variable/Fixed.
			Input TV mode program number	Normal	Press "◀" or "▶" to change Normal → 1 → 2 ...999 → Normal).
			RC path through	Off	Press "◀" or "▶" to change On/Off (required external module)
			PUBLIC MODE (2/2)	PUBLIC MODE Submenu	
		11/17	Hotel mode	Off	Press "◀" or "▶" to change On/Off.
			Reset	"OK" will be displayed	Press "◀" or "▶" to return to factory settings.
			Execute	"OK" will be displayed	Press "◀" or "▶" to confirm.
	9		SMART LOADER	SMART LOADER Submenu	Press "OK" to enter to SMART LOADER Submenu
		12/17	Save settings to USB	("OK" or "NO USB drive available, please check and/or insert USB dri..." will be displayed).	Press "◀" or "▶" to Save. ("OK" or "NO USB drive available, please check and/or insert USB dri..." will be displayed).
			Load settings from USB	("OK, reboot TV set" or "NO USB drive available, please check and/or insert USB dri..." will be displayed).	Press "◀" or "▶" to Load.
	10		ADC ADJUST	ADC ADJUST Submenu	Press "OK" to enter to ADC ADJUST Submenu
		13/17	MODE	YPbPr(SD)	Press "◀" or "▶" to change RGB/YPbPr(SD)/ YPbPr(HD).
			ADJUST	External signal	Press "◀" or "▶" to change Internal signal/External signal. External: factory. Internal: service
			R-GAIN	80	Press "◀" or "▶" for manual adjustment.
			G-GAIN	70	Press "◀" or "▶" for manual adjustment.

Page	Line	Sub Page	Item	Description	Remarks (adjustment details, etc.)
01/17	[SHARP FACTORY MENU]				
			ADC ADJUST (continued)	ADC ADJUST Submenu	Press "OK" to enter to ADC ADJUST Submenu
10	13/17		B-GAIN	80	Press "◀" or "▶" for manual adjustment.
			R-OFFSET	128	Press "◀" or "▶" for manual adjustment.
			G-OFFSET	128	Press "◀" or "▶" for manual adjustment.
			B-OFFSET	128	Press "◀" or "▶" for manual adjustment.
			AUTO ADC	"SUCCESS" or "Fail will be displayed"	Press "◀" or "▶" for automatic adjustment in each mode.
11			GAMMA (1/3)	GAMMA Submenu	Press "OK" to enter to GAMMA Submenu
	14/17		MGAMMA IN1	40	W/B adjustment, gradation 1 input setting.
			MGAMMA IN2	80	W/B adjustment, gradation 2 input setting.
			MGAMMA IN3	120	W/B adjustment, gradation 3 input setting.
			MGAMMA IN4	160	W/B adjustment, gradation 4 input setting.
			MGAMMA IN5	200	W/B adjustment, gradation 5 input setting.
			MGAMMA IN6	240	W/B adjustment, gradation 6 input setting.
			MGAMMA WRITE	"SUCCESS" will be displayed	Press "◀" or "▶" for EEP writing of adjustment values.
			MGAMMA RESET	"SUCCESS" will be displayed	Press "◀" or "▶" for Initialization of adjustment values.
			GAMMA (2/3)	GAMMA Submenu	
	15/17		MGAMMA R1	151	W/B adjustment, gradation 1R adjustment value.
			MGAMMA G1	155	W/B adjustment, gradation 1G adjustment value.
			MGAMMA B1	146	W/B adjustment, gradation 1B adjustment value.
			MGAMMA R2	307	W/B adjustment, gradation 2R adjustment value.
			MGAMMA G2	318	W/B adjustment, gradation 2G adjustment value.
			MGAMMA B2	308	W/B adjustment, gradation 2B adjustment value.
			MGAMMA R3	458	W/B adjustment, gradation 3R adjustment value.
			MGAMMA G3	480	W/B adjustment, gradation 3G adjustment value.
			MGAMMA B3	471	W/B adjustment, gradation 3R adjustment value.
			MGAMMA WRITE	"SUCCESS" will be displayed	Press "◀" or "▶" for EEP writing of adjustment values.
			GAMMA (3/3)	W/B ADJUST Submenu	
	16/17		MGAMMA R4	619	W/B adjustment, gradation 4R adjustment value.
			MGAMMA G4	640	W/B adjustment, gradation 4G adjustment value.
			MGAMMA B4	631	W/B adjustment, gradation 4B adjustment value.
			MGAMMA R5	770	W/B adjustment, gradation 5R adjustment value.
			MGAMMA G5	800	W/B adjustment, gradation 5G adjustment value.
			MGAMMA B5	789	W/B adjustment, gradation 5B adjustment value.
			MGAMMA R6	918	W/B adjustment, gradation 6R adjustment value.
			MGAMMA G6	961	W/B adjustment, gradation 6G adjustment value.
			MGAMMA B6	946	W/B adjustment, gradation 6R adjustment value.
			MGAMMA WRITE	"SUCCESS" will be displayed	Press "◀" or "▶" for EEP writing of adjustment values.
12			SYSTEM INFORMATION	SYSTEM INFORMATION Submenu	Press "OK" to enter to SYSTEM INFORMATION Submenu (Only for Engineering purpose, don't use)
	17/17		NOISE LEVEL	8	Informative (changing).
			GLOBAL MOTION	127	Informative (changing).
			BIT RATE	0	Informative.
			Scan name search	2	Changeable between 0 and 255.
			VPS code	FFFF	Informative.
			830/1 code	FFFF	Informative.
			830/2 code	FFFF	Informative.
			Top TXT enabled	1	Press "◀" or "▶" to change 0/1.
			CEC	off	Press "◀" or "▶" to change off/on.

6. Video Signal Adjustment Procedure

6.1. RGB SCART ADC

1. Enter in Service mode.
2. Press “▼” until selecting “ADC ADJUST” option.
3. Press “OK”.
4. “ADC ADJUST” menu appears.
5. Press “▼” until selecting “ADJUST” option.
6. Press “▶” until selecting “Internal Signal”.
7. Press “▲” until selecting “MODE” option.
8. Press “▶” until selecting “RGB”.
9. Press “▼” until selecting “AUTO ADC” option.
10. Press “▶”, the adjustment starts.
11. “SUCCESS” appears when the adjustments finish.
12. Exit of Service mode.

6.2. COMPONENTS ADC

1. Enter in Service mode.
2. Press “▼” until selecting “ADC ADJUST” option.
3. Press “OK”.
4. “ADC ADJUST” menu appears.
5. Press “▼” until selecting “ADJUST” option.
6. Press “▶” until selecting “Internal Signal”.
7. Press “▲” until selecting “MODE” option.
8. Press “▶” until selecting “YPbPr(SD)” or “YPbPr(HD)”
9. Press “▼” until selecting “AUTO ADC” option.
10. Press “▶”, the adjustment starts.
11. “SUCCESS” appears when the adjustments finish.

Note: both SD and HD are adjusted.

12. Exit of Service mode.

6.3. PC IN RGB ADC

1. Enter in Service mode.
2. Press “▼” until selecting “ADC ADJUST” option.
3. Press “OK”.
4. “ADC ADJUST” menu appears.
5. Press “▼” until selecting “ADJUST” option.
6. Press “▶” until selecting “Internal Signal”.
7. Press “▲” until selecting “MODE” option.
8. Press “▶” until selecting “PC-RGB”.
9. Press “▼” until selecting “AUTO ADC” option.
10. Press “▶”, the adjustment starts.
11. “SUCCESS” appears when the adjustments finish.
12. Exit of Service mode.

7. White Balance Adjustment

Condition: AV MODE= **Dynamic** (backlight at max.).

- Adjustments reference device: **Minolta CA-210**
- Adjustments target: **x=0.272, y=0.277**

High: adjustments spec ± 0.001 , inspection spec: ± 0.002

Low: adjustments spec ± 0.002 , inspection spec: ± 0.004

1. Press "▼" until selecting "GAMMA" option.
2. Press "OK".
3. "GAMMA" menu appears.
4. Press "▼" until selecting "MGAMMA RESET".
5. Press "►", to restore default values.
6. "MGAMMA RESET SUCCESS" appears.
7. Press "P+" to increase one page.
8. Press "1", appears "Internal Adjustments Pattern 1".
9. Hold the default value for "MGAMMA G1".
(Note: next, try to get the (x, y) adjustments target, changing "MGAMMA R1" and "MGAMMA B1" as follow).
10. Press "▼" until selecting "MGAMMA R1".
11. Press "◀ ▶" until you obtain the desired value.
12. Press "MENU" to return to previous menu.
13. Press "▼" until selecting "MGAMMA B1".
14. Press "◀ ▶" until you obtain the desired value.
15. Press "MENU" to return to previous menu.

(Note: In case of not being possible to achieve the desired (x, y) target, try to get it by changing also the "MGAMMA G1")

16. Press "2", appears "Internal Adjustments Pattern 2".
17. Repeat from step 9 to 15 for the "MGAMMA R2" and "MGAMMA B2".
18. Press "3", appears "Internal Adjustments Pattern 3".
19. Repeat from step 9 to 15 for the "MGAMMA R3" and "MGAMMA B3".
20. Press "4", appears "Internal Adjustments Pattern 4".
21. Repeat from step 9 to 15 for the "MGAMMA R4" and "MGAMMA B4".
22. Press "5", appears "Internal Adjustments Pattern 5".
23. Repeat from step 9 to 15 for the "MGAMMA R5" and "MGAMMA B5".
24. Press "6", appears "Internal Adjustments Pattern 6".
25. Repeat from step 9 to 15 for the "MGAMMA R6" and "MGAMMA B6".
26. Press "▼" until selecting "MGAMMA WRITE".
27. Press "►", to save the new values.
28. "MGAMMA WRITE SUCCESS" appears.

NOTE:

For activating the W/B flag, only is necessary to send the order MGAMMA WRITE. After this action, the "W" W/B flag will change to "1".

8. Initialization to factory setting

Caution: When the factory settings have been made, all user setting data, including the channel settings, are initialized. (The adjustments done in the adjustment process mode are not initialized.) Keep this in mind when initializing these settings.

1. Enter in Service mode.
2. Press “▼” or “▲” key until selecting INIT.
3. Press OK key.
4. INIT menu appears and “Factory init” option is selected.
5. Press “◀” or “▶” until selecting the option desired (EURO/RUSSIA/SWEDEN/UK/EAST EUROPE).
6. Press OK key and initialization starts.
7. OK, EURO message appears for EURO option when the setting is complete.
OK, RUSSIA message appears for RUSSIA option when the setting is complete.
OK, SWEDEN message appears for SWEDEN option when the setting is complete.
OK, UK message appears for UK option when the setting is complete.
OK, EAST EUROPE message appears for EAST EUROPE option when the setting is complete.

Note: Never turn the power off during initialization.

To exit the adjustment process mode, unplug the AC power cord from the outlet to forcibly turn off the power.

The following settings will be back to their factory ones.

- User settings
- Channel data (e.g. broadcast frequencies)
- Maker option setting
- Password data

9. Lamp error detection

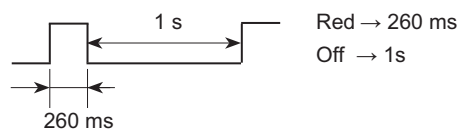
1. Function description

This LCD colour television has a function (lamp error detection) to be turned OFF the TV set automatically for safety criteria when the lamp or lamp circuit is abnormal.

If the lamp or lamp circuit is abnormal, or some other errors happen, and the lamp error detection is executed, the following occurs:

- a. The TV set is turned OFF automatically 20 seconds after it is turned ON by the user.
(The power LED on the front side of TV turns from green to red)
- b. If the situation "a." happens 5 times sequentially, it becomes impossible to turn on the power.
(The power LED turns from green to red and keeps blinking in red).

LED Flashing timing



2. Countermeasures

- a. Checking with [L Error Check Off]. Repair the problem that produces the LAMP ERROR. The TV remains with power LED blinking until K mode is forced by local keyboard, in order to disable the LAMP ERROR detection. To disable the LAMP ERROR feature is necessary enter in K mode by pressing "VOL DOWN" and "→" keys at same time when the AC cord is plugged in.
- b. Resetting the LAMP ERROR counter. After the lamp and lamp circuit are found out of trouble, the LAMP ERROR counter should be reset. If a LAMP ERROR is detected five consecutive times, the power cannot be turned on.

Method 1: Using the cursor (UP/DOWN) key, move to the cursor to [L Error Reset] on Line 6 of ETC Menu Fig 4. With the cursor (LEFT/RIGHT) keys reset the value to "0".

Method 2: In the case the TV is not blocked (less than 5 consecutive errors), switch on the Set. After 30 minutes working, the LAMP ERROR counter will be reset automatically.

10. Public Mode (Hotel mode)

1. How to Enter in the Public Mode (Hotel Mode).

There are three following ways to display the Public Mode setting screen.

Method 1:

Turn on the power and enter in the Service mode as usual and select line 8 [PUBLIC MODE].

Method 2:

Unplug the AC power cord.

While pressing "VOL+" and "

Then, when you are asked for the password, enter "0027".

After this sequence the TV will turn on showing the Public Mode setting screen as it is shown in Fig. 5.

In another case, the screen is erased, and it operates in the ordinary mode.

Method 3:

By special R/C code: RC table LCD, SYS CORD: 0x78, RC DATA: (HEX) 0xC7, (DEC) 199.

Then, when you are asked for the password, enter "0027".

After this sequence the TV will turn on showing the Public Mode setting screen as it is shown in Fig. 5.

Is possible to select each item of function by pressing cursor UP/DOWN keys on the remote control or CH (UP/DOWN) keys on the LCD TV.

The setting position of each item of functions is made by pressing cursor RIGHT/LEFT keys on the remote control or VOL (+) / (-) keys on the LCD TV.

Set to ON the HOTEL MODE function to active it.

Select EXECUTE position after you set all function, and press cursor RIGHT/LEFT keys on the remote control or VOL (+) / (-) keys on the LCD TV for confirmation.

Unplug and plug the AC power cord to take effect all the changes.

2. Public Mode Settings.

1. POWER ON FIXED [VARIABLE ↔ FIXED]

When it is set to "FIXED" the TV is impossible to be switch off by Main Switch or Remote Control.

2. MAXIMUM VOLUME [0 ↔ 60]

Is possible to set the maximum volume at limited level.

3. VOLUME FIXED [VARIABLE ↔ FIXED]

Is possible to fix the sound volume at limited level.

When "FIXED" is selected the sound volume before limited is fixed.

4. VOLUME FIXED LEVEL [0 ↔ 60]

If "FIXED" has been selected, is possible to set a fixed volume at the level that is chosen.

5. RC BUTTON [RESPOND ↔ NO RESPOND]

If "NO RESPOND" is selected, the remote control keys are inoperative.

6. PANEL BUTTON [RESPOND ↔ NO RESPOND]

If "NO RESPOND" has been selected, the set's keys remain deactivated (Except POWER key).

7. MENU BUTTON [RESPOND ↔ NO RESPOND]

If "NO RESPOND" has been selected, "MENU" key, of remote control, is inoperative.

10. Public Mode (Hotel mode) (continued)

8. ON SCREEN DISPLAY [On ↔ Off]
If "NO" has been selected, the On Screen Display does not appear.
9. INPUT MODE START [NORMAL → TV → SCART → COMPONENTS → HDMI1 → HDMI2 → HDMI3 → AV → MEDIA PLAYER]
When any other item than "NORMAL" has been selected, the sets will start in a selected input mode at the next power-on.
10. INPUT MODE FIXED [VARIABLE → FIXED]
"FIXED" has been selected, any channels and input modes other than those selected at the start mode cannot be picked up.
11. INPUT TV MODE PROGRAM NUMBER [NORMAL → 1-999 → NORMAL]
When any other item than "NORMAL", i.e. number, has been selected, and "INPUT MODE START" option is set to "TV", the sets will start in the selected service / program number at the next power-on.
12. RC PATH THROUGH [ON ↔ OFF] T.B.D.
13. HOTEL MODE [ON ↔ OFF]
If ON has been selected the HOTEL MODE is activated.
14. RESET
Cancel all Public Mode settings. (It returns to the factory settings)
15. EXECUTE
Select this item, and press cursor RIGHT / LEFT keys on the remote control or VOL (+) / (-) keys on the LCD TV for confirmation the functions settings.

11. SMART LOADER

Description.

The Smartloader is a function implemented in the service software of SEES designed LE200 series intended to easily replicate the user settings of one TV into another. These settings include (but not restricted to): picture and audio, tuning set-up, language and country selection, PIN, child locked programs... Factory adjustments are not copied as they are different for every TV.

The Smartloader makes possible the user data to be stored in a memory device connected to the USB terminal of the TV that is used as reference and later load those data into other TVs by using their respective USB terminal.

How it works.

In reference TV:

1. Insert a memory device in the USB slot.
2. Enter in service mode, select Factory Menu and SMARTLOADER option.
3. Select "Save settings to USB" and press the RIGHT cursor in the remote control.
4. Wait until "OK" is displayed, the file has been successfully created in the root directory of the memory device.
In case of error, an explanation message is shown.

In TV to be cloned:

1. Insert a memory device with a file in it obtained following the above procedure.
2. Enter in service mode, select Factory Menu and SMARTLOADER option.
3. Select "Load settings from USB" and press the RIGHT button in the remote control.
4. After some seconds, "OK, reboot TV set" is displayed. In case of error, an explanation message is shown.
5. As indicated, reboot the TV to load the new settings.

Very important: All the TVs must have the same software version and hardware.

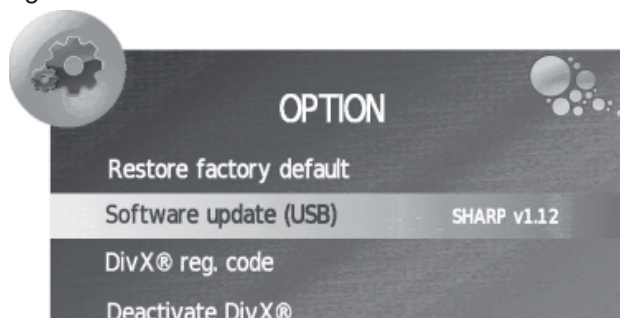
SOFTWARE UPDATING

1. Introduction

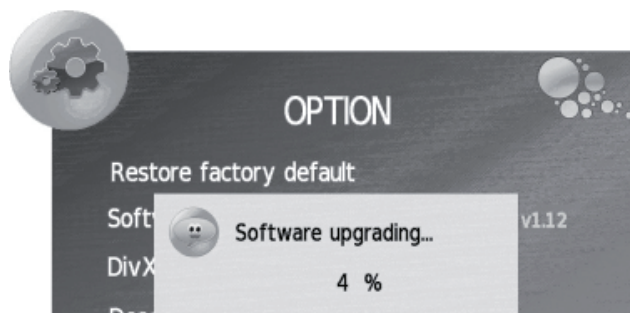
1. In order to proceed with the Software Updating do not enter into Service Mode.
2. The TV should be in normal operation (ON).

2. Procedure

1. Insert the USB memory into the USB terminal with the file name "**MERGE.bin**"(for LE210) or "**MERGE_aes.bin**"(for Lx220) on the root directory.
2. Press "MENU".
 - "PICTURE" menu appears on screen.
3. Press "►" until selecting "OPTION" menu.



4. Press "▼" until selecting "Software update (USB) Sharp v*.*".
 - The current software version is displayed.
5. Press "OK"
 - "**Are you sure? Yes - No**" message is displayed.
6. Press "◀" until selecting "Yes".
7. Press "OK".
 - The software update process starts.



- "Software upgrading... **%" message appears.
- The upgrading process is finished, the LCD-TV restarts.

NOTE: If the "MERGE.bin" (for LE210) or "MERGE_aes.bin"(for Lx220) on the USB memory is not the proper for this model, an ERROR message is shown on screen and the LCD TV restarts itself. No upgrade is made.

8. Remove the AC cord and plug it again.
9. Return to OPTION menu to check that the version has been updated successfully.

NOTE:

If the TV is switched off during the upgrade process, when it is switched on again, the Power LED flashes: Violet for 130 ms and blue for 1.5 s, with NO screen until it is detected in the USB memory a file "**MERGE.bin**"(for LE210) or "**MERGE_aes.bin**" (for Lx220). Then the power LED will flash: Violet for 40 ms and blue for other 40 ms, with NO screen while the new software is uploaded. Once the process is completed, the TV set will start automatically.

MAJOR ICs INFORMATION

1. General ICs Information

- **IC 201 (LE210):** Digital DVBT / VIF Demodulator
Part number: MSB1220LQFP
Sharp code: RH-IXC868WJZZQ

The MSB1220-LF is a DVB-T demodulator. It is fully compliant with the DVB-T (ETSI ET 300 744), D-Book 5.0 and NORDIG unified specification. Converts IF differential signals to MPEG-2/4 transport stream format. It can be used in all 2k, 4k and 8 k modes. The device includes a high performance 11 bit A/D converter capable of accepting direct IF at 36 or 44 Mhz. A digital filter with high rejection capability is also cope with digital or analog adjacent channel. The frequency capture range is sufficient to compensate for the combined offset introduced by the tuner and broadcaster without re-programming the tuner.

- **IC 201 (Lx220):** Digital DVBT / VIF Demodulator
Part number: MSB1222-LF
Sharp code: RH-IXD148WJZZQ

The MSB1222-LF is a DVB-T/DVB-C demodulator. It is fully compliant with the DVB-T (ETSI ET 300 744), D-Book 5.0 and NORDIG unified specification. Also is compliant with DVB-C (EN 300429) and ITU-T J.83 Annex A/C. Converts IF differential signals to MPEG-2/4 transport stream format. It can be used in all 2k, 4k and 8 k modes. The device includes a high performance 11 bit A/D converter capable of accepting direct IF at 36 or 44 Mhz. A digital filter with high rejection capability is also cope with digital or analog adjacent channel. The frequency capture range is sufficient to compensate for the combined offset introduced by the tuner and broadcaster without re-programming the tuner.

- **IC 306:** Audio power IC
Part number: MSH 9000-LF
Sharp code : RH-IXC867WJQZY

10W-Ch audio power class-D operation for driving bridged-tied stereo speakers.

- **IC 309:** Headphones amplifier.
Part number: BH3547-E2
Sharp code: VHIBH3547F+-1L

The BH3547 is a 6 dB gain headphones amplifier. It built-in mute function for preventing pop noise when power supply turns On or Off.

Moreover , built-in thermal shutdown circuit to prevent short circuit .

- **IC 1007 :** 64M-Bit Serial Flash
Part number: MX25L6445EMI-10G-TR
Sharp code: RH-IXD012WJZZY

The MX25L6445EMI ia a 64 M-Bit serial flash, 3,3 V single operation. The flash memory stores the main software that is used for the main CPU (IC 1001).

- **IC 1001:** All – in – one DTV Processor
Part number: MSD3303GX
Sharp code : RH-IXC869WJQZQ

The MSD3303GX is a system one chip for flat panel integrated digital television. It integrating MPEG2 and h.264 high definition video decoders into a single device. By including a flexible AV decoder capable of decoding a plethora of high definition, USB connectivity and a powerful CPU.

- **IC 1002 & IC 1003 :** 512 Mb DDR2 SDRAM
Part number: K4T51163QI
Sharp code: RH-IXD228WJZZQ

The 512Mb DDR2 SDRAM is organized as 16Mbit x 8 I/Os x 4 banks device. This synchronous device achieves high speed double-data-rate transfer rates of up to 800Mb/sec/pin (DDR2-800) for general applications.

All of the control and address inputs are synchronized with a pair of externally supplied differential clocks (CK rising and CK falling).

This device operates with single 1,8V power supply .

- **IC 1901, IC 1902 & IC 1903 :** NVM of HDMI inputs (EDID)
Part number: K24C02C
Sharp code: RH-IXD080WJZZY

The K24C02C is a 2-wire (I2C bus type) serial EEPROM that is electrically programmable. This NVM memory is associated to the MAIN MICRO. This EEPROM chip stores the data structure used to carry configuration information for optimal use of a display (EDID data) when use a HDMI signal input.

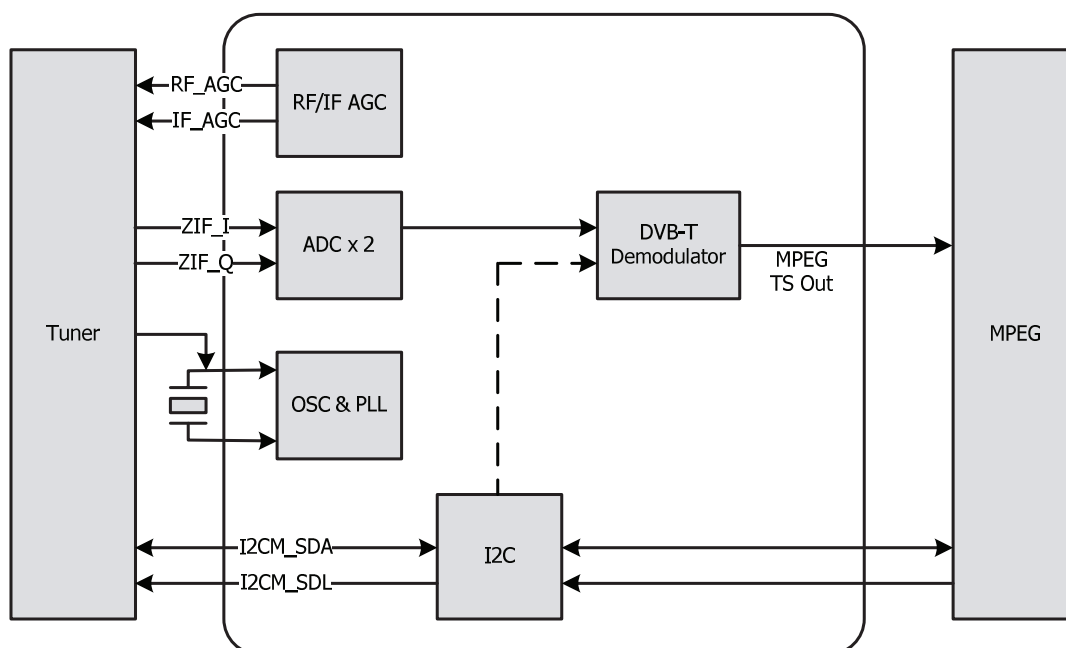
- **IC 1006** : NVM of settings and HDCP data
Part number: IC M24C64
Sharp code: VHIM24C64WN-1Y
- **IC 8102** : Power supply USB port protection
Part number: AAT4614IGU-2-T1
Sharp code: RH-IXD187WJZZY

The AAT4614 SmartSwitch is a current limited P-channel MOSFET power switch designed for high side load switching applications. This switch operates with inputs ranging from 2.4V to 5.5V, making it ideal for both 3V and 5V systems. An integrated current-limiting circuit protects the input supply against large currents which may cause the supply to fall out of regulation. Reverse current blocking is provided to protect the load switch from reverse current potentials while the device is shutdown. The AAT4614 is also protected from thermal overload which is limited by power dissipation and junction temperatures. Current limit threshold is programmed with a resistor from SET to ground and has been adjusted for levels up to 1.1A.

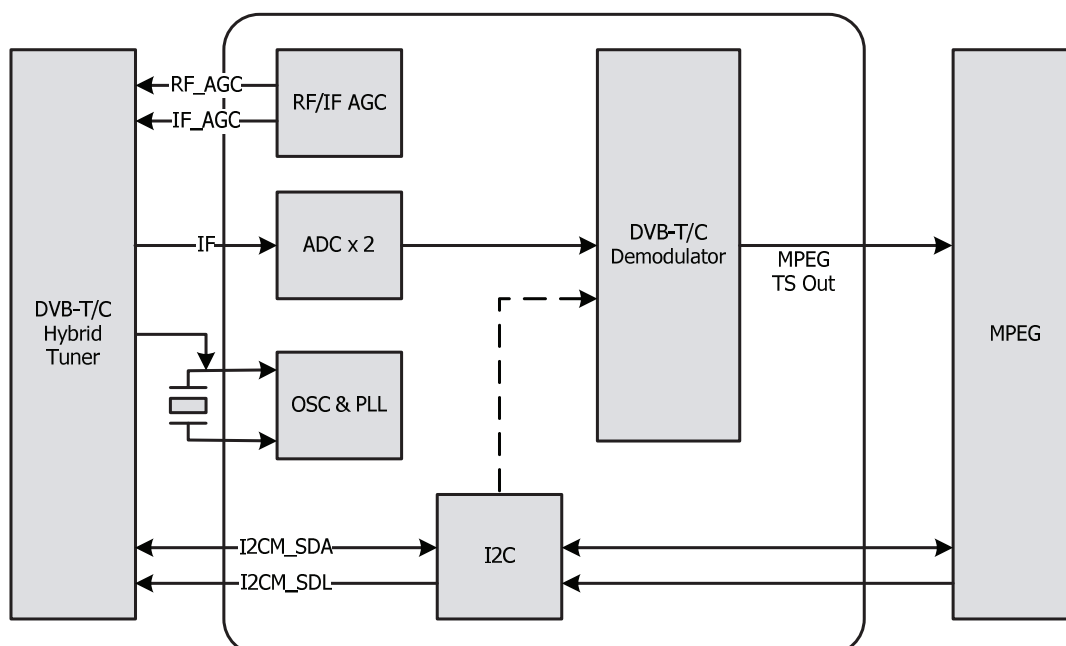
2. Detailed ICs Information, DUNTKF639WE (Main Unit)

2.1. IC201

2.1.1. LE210 Series Block Diagram (MSB1220)



2.1.1. Lx220 Series Block Diagram (MSB1222)



2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.1. IC201 (LE210 & Lx220 Series)

2.1.2. Pin Description

Misc. Interface

Pin Name	Pin Type	Function
EXTRSTN	Input w/ 5V-Tolerant	Chip Reset; Low Reset
IF_AGC	Output	IF AGC
RF_AGC	Output	RF AGC

Analog Interface

Pin Name	Pin Type	Function
SSIFO	Analog output	SSIF Output
CVBSOUT	Analog output	CVBS Output
CLKO	Analog output	Clock Output
VR27	Analog output	
SIFIP	Analog input	SIF Positive Input
SIFIM	Analog input	SIF Negative Input
VIFIM	Analog input	VIF Positive Input
VIFIP	Analog input	VIF Negative Input
VREFM	Analog input	Analog Reference Pin
VREFP	Analog input	Analog Reference Pin
ZIF_QM	Analog input	ADC ZIF Q Negative Input
ZIF_QP	Analog input	ADC ZIF Q Positive Input
ZIF_IM	Analog input	ADC ZIF I Negative Input
ZIF_IP	Analog input	ADC ZIF I Positive Input
XIN		Crystal Oscillator Input
XOUT		Crystal Oscillator Output

Transport Stream Interface

Pin Name	Pin Type	Function
TS_DATA[7:0]	Output	Transport Stream Data Bus Bit [7:0]
TS_VALID	Output	Transport Stream Data Valid
TS_SYNC	Output	Transport Stream Packet Start
TS_CLK	Output	Transport Stream Clock Out

Serial Interface

Pin Name	Pin Type	Function
I2CS_SCL	Input w/ 5V-Tolerant	Serial Clock
I2CS_SDA	I/O w/ 5V-Tolerant	Serial Data
I2CM_SCL	I/O w/ 5V-Tolerant	Serial Clock Tuner
I2CM_SDA	I/O w/ 5V-Tolerant	Serial Data Tuner

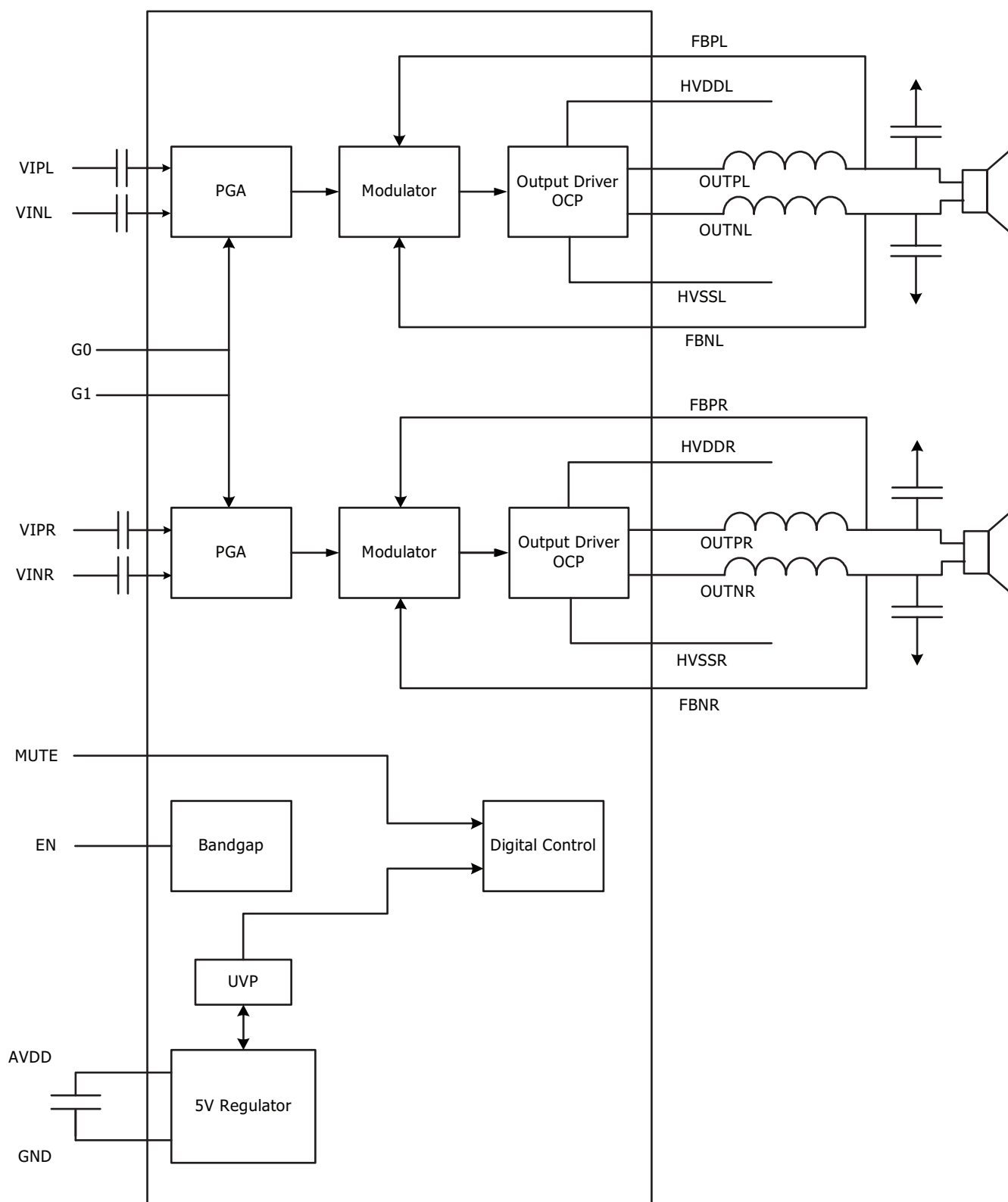
Power Pins

Pin Name	Pin Type	Function
AVDD_33	3.3V Power	Analog Power
VDDC	1.2V Power	Digital Core Power
GND	Ground	Ground

2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.2. IC 306 (MSH 9000-LF)

2.2.1. Functional Block Diagram



2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.2. IC 306 (MSH 9000-LF)

2.2.2. Pin Description

Analog Interface

Pin Name	Pin Type	Function	Pin
VIPL	Analog Input	Left channel P side audio input	3
VINL	Analog Input	Left channel N side audio input	4
VINR	Analog Input	Right channel N side audio input	7
VIPR	Analog Input	Right channel P side audio input	8
OUTNR	Analog Output	Right channel N side switching output	12, 14
OUTPR	Analog Output	Right channel P side switching output	17, 19
FBPR	Analog Output	Right channel P side feedback	22
FBNR	Analog Output	Right channel N side feedback	23
FBNL	Analog Output	Left channel N side feedback	28
FBPL	Analog Output	Left channel P side feedback	29
OUTPL	Analog Output	Left channel P side switching output	32, 34
OUTNL	Analog Output	Left channel N side switching output	37, 39

Digital Interface

Pin Name	Pin Type	Function	Pin
G0	Digital Input	Volume gain control bit 0	5
G1	Digital Input	Volume gain control bit 1	2
MUTE	Digital Input	Class-D is mute when EN=Hi	6
EN	Digital Input	Class-D is enable when EN=Hi	26

Power Pins

Pin Name	Pin Type	Function	Pin
HVSSL	Ground	Ground for left channel	1, 30, 31, 40
HVSSR	Ground	Ground for right channel	10, 11, 20, 21
HVDDR	Analog Input	Supply voltage for Right channel	13, 15, 16, 18
HVDDL	Analog Input	Supply voltage for Left channel	33, 35, 36, 38
AVDD	Analog Input	Internal reference voltage	25
GND	Ground	Ground	9, 24

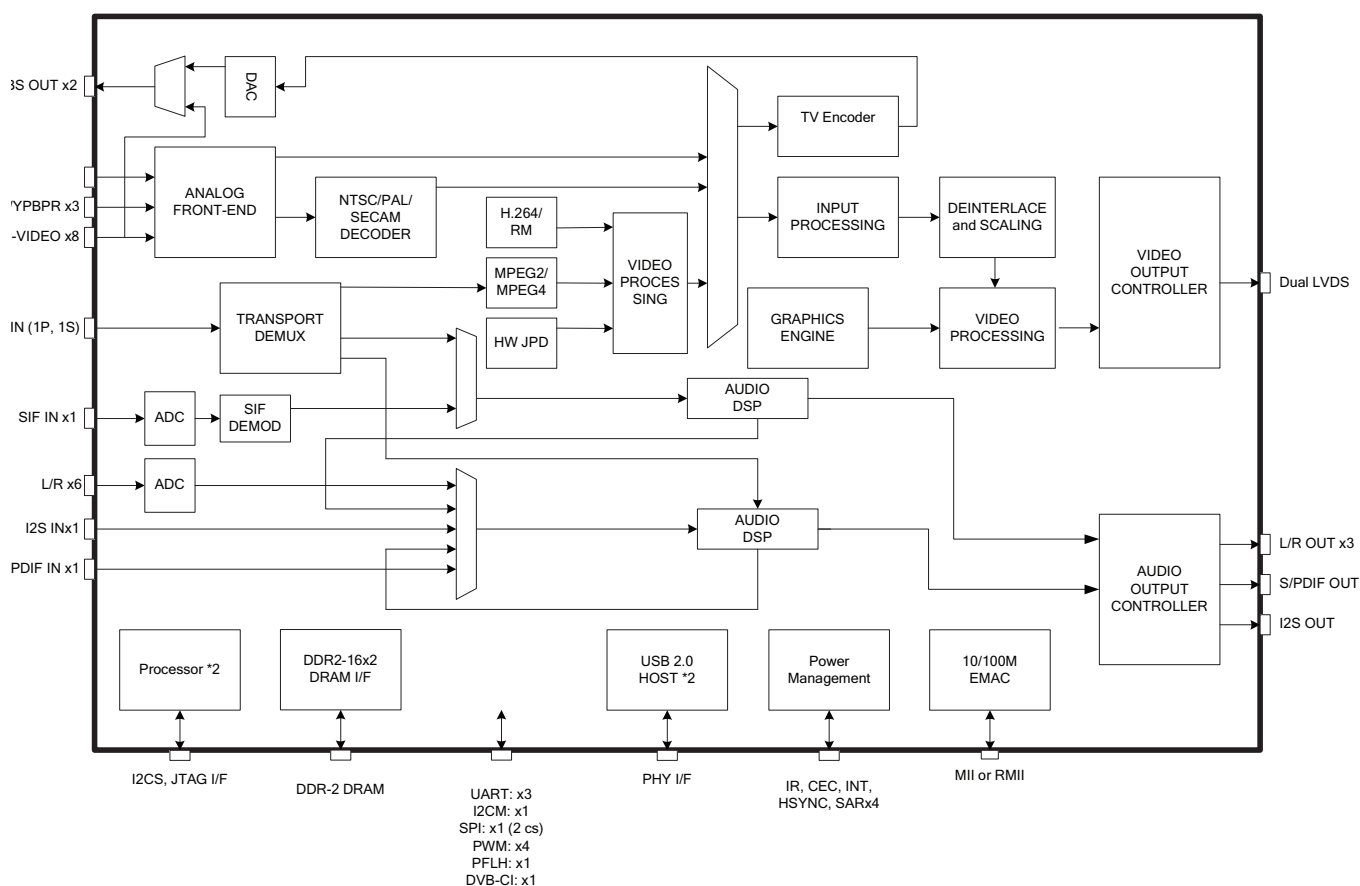
2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.3. IC 1001 (MSD3303GX)

2.3.1. Key Features

- Master CPU with MMU.
- DRAM controller supporting up to two 16-bit DDR2 interface.
- Power control module with ultra low power MCU available in stand by mode.
- Parallel interface for external parallel NOR flash and NAND flash support.
- H.264 decoder. Support resolution up to HDTV (1080i, 720p) .
- MPEG-2 decoder.
- Video analog processor.
- NTSC/PAL/SECAM Video Decoder.
- Support Teletext mode.
- Two CVBS video outputs.
- Eight configurable CVBS, Y/C, S-video inputs.
- Multistandard sound Processor.
- AC3 decoder.
- I²S digital audio output.
- Six L/R audio line-inputs.
- SIF audio output.
- Stereo L/R output for main speaker.
- Two HDMI / HDCP compliant input port.
- CEC support.
- Fully programmable scaler and display processing.
- Support up to 10 bit LVDS full HDTV panel interface.
- Support USB 2.0
- Support Common Interface for conditional access.

2.3.2. Block Diagram



2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.3. IC 1001 (MSD3303GX)

2.3.3. Pin Description

Analog Interface

Pin Name	Pin Type	Function	Pin
VCLAMP		CVBS/YC Mode Clamp Voltage Bypass	K4
REFP		Internal ADC Top De-coupling Pin	H4
REFM		Internal ADC Bottom De-coupling Pin	J4
REXT	Analog Input	External Resister 390 ohm to AVDD_33	G4
HSYNC0	Schmitt Trigger Input w/ 5V-tolerant	HSYNC / Composite Sync for VGA Input from channel 0	N2
VSYNC0	Schmitt Trigger Input w/ 5V-tolerant	VSYNC for VGA Input from channel 0	N1
HSYNC1	Schmitt Trigger Input w/ 5V-tolerant	HSYNC / Composite Sync for VGA Input from channel 1	K3
VSYNC1	Schmitt Trigger Input w/ 5V-tolerant	VSYNC for VGA Input from channel 1	K2
HSYNC2	Schmitt Trigger Input w/ 5V-tolerant	HSYNC for VGA Input from channel 2	J5
BINM	Analog Input	Reference Ground for Analog Blue Input	T3
BIN0P	Analog Input	Analog Blue Input from Channel 0	R1
BIN1P	Analog Input	Analog Blue Input from Channel 1	K1
BIN2P	Analog Input	Analog Blue Input from Channel 2	U1
GINM	Analog Input	Reference Ground for Analog Green Input	R2
GIN0P	Analog Input	Analog Green Input from Channel 0	R3
GIN1P	Analog Input	Analog Green Input from Channel 1	L3
GIN2P	Analog Input	Analog Green Input from Channel 2	V2
SOGIN0	Analog Input	Sync On Green Input from Channel 0	P3
SOGIN1	Analog Input	Sync On Green Input from Channel 1	L2
SOGIN2	Analog Input	Sync On Green Input from Channel 2	V3
RINM	Analog Input	Reference Ground for Analog Red Input	P1
RIN0P	Analog Input	Analog Red Input from Channel 0	P2
RIN1P	Analog Input	Analog Red Input from Channel 0	L1
RIN2P	Analog Input	Analog Red Input from Channel 0	V1

Analog Video Input/Output Interface

Pin Name	Pin Type	Function	Pin
CVBS7	Analog Input	CVBS (Composite) Video Input Channel 7	M3
CVBS6	Analog Input	CVBS (Composite) Video Input Channel 6	M2
CVBS5	Analog Input	CVBS (Composite) Video Input Channel 5	N3
CVBS4	Analog Input	CVBS (Composite) Video Input Channel 4	M1
CVBS3	Analog Input	CVBS (Composite) Video Input Channel 3	T1
CVBS2	Analog Input	CVBS (Composite) Video Input Channel 2	U2
CVBS1	Analog Input	CVBS (Composite) Video Input Channel 1	U3
CVBS0	Analog Input	CVBS (Composite) Video Input Channel 0	W1
VCOM1	Analog Input	CVBS Input Reference Ground	T2
VCOM0	Analog Input	CVBS Input Reference Ground	Y3
CVBSOUT0	Analog Output	CVBS (Composite) Video Output Channel 0	Y2
CVBSOUT1	Analog Output	CVBS (Composite) Video Output Channel 1	AA2

2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.3. IC 1001 (MSD3303GX)

2.3.3. Pin Description (continued)

Analog Audio Input/Output Interface

Pin Name	Pin Type	Function	Pin
SIF0P	Analog Input	SIF Audio Input Channel 0	W3
SIF0M	Analog Input	Reference Ground for SIF Audio Input Channel 0	W2
I2S_OUT_MCK	Output	Audio Master Clock Output	A8
I2S_OUT_WS	Output	Word Select Output; 4mA driving strength	B7
I2S_OUT_BCK	Output	Audio Bit Clock Output	C7
I2S_OUT_SD	Output	Audio Serial Data Output; 4mA driving strength	D8
GPIO102/ I2S_OUT_SD2	Output	General Purpose Input/Output; 4mA driving strength / Audio Serial Data Output; 4mA driving strength	C5
GPIO103/ I2S_OUT_SD3	Output	General Purpose Input/Output; 4mA driving strength / Audio Serial Data Output; 4mA driving strength	D5
I2S_OUT_MUTE	Output	Audio Output Mute Control	E7
GPIO90/ I2S_OUT_MUTE		General Purpose Input/Output; 4mA driving strength / Audio Output Mute Control	D7
SPDIFO	Output	S/PDIF Audio Output; 4mA driving strength	E9
I2S_IN_WS/ GPIO67	I/O	Word Select Input / General Purpose Input/Output; 4mA driving strength	A7
I2S_IN_BCK/ GPIO68	I/O	Audio Bit Clock Input / General Purpose Input/Output; 4mA driving strength	B8
I2S_IN_SD	Input	Audio Serial Data Input	C8
SPDIFI	Input w/ 5V-tolerant	S/PDIF Audio Input	F11
AUL0	Analog Input	Audio Line Input Left Channel 0	Y1
AUR0	Analog Input	Audio Line Input Right Channel 0	AA3
AUL1	Analog Input	Audio Line Input Left Channel 1	AC4
AUR1	Analog Input	Audio Line Input Right Channel 1	AE1
AUL2	Analog Input	Audio Line Input Left Channel 2	AE2
AUR2	Analog Input	Audio Line Input Right Channel 2	AE3
AUL3	Analog Input	Audio Line Input Left Channel 3	AB1
AUR3	Analog Input	Audio Line Input Right Channel 3	AA1
AUL4	Analog Input	Audio Line Input Left Channel 4	AC2
AUR4	Analog Input	Audio Line Input Right Channel 4	AB2
AUL5	Analog Input	Audio Line Input Left Channel 5	AC3
AUR5	Analog Input	Audio Line Input Right Channel 5	AB3
AUCOM	Analog Input	Reference Ground for Audio Line Input	AB5
AUVRM	Analog Output	Negative Reference Voltage for Audio ADC	AD5
AUVRP	Analog Output	Positive Reference Voltage for Audio ADC	AE5
AUVAG	Analog Output	Reference Voltage for Audio Common Mode	AC5
AUOUTL2	Analog Output	Main Audio Output Left Channel 2	AD2
AUOUTR2	Analog Output	Main Audio Output Right Channel 2	AC1
AUOUTL1	Analog Output	Main Audio Output Left Channel 1	AD1
AUOUTR1	Analog Output	Main Audio Output Right Channel 1	AD3
AUOUTL0	Analog Output	Main Audio Output Left Channel 0	AD4
AUOUTR0	Analog Output	Main Audio Output Right Channel 0	AE4

2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.3. IC 1001 (MSD3303GX)

2.3.3. Pin Description (continued)

Common Interface

Pin Name	Pin Type	Function	Pin
PCMDATA[7:0]/ CI_DATA[7:0]	I/O	PCMCIA Data[7:0] / Common Interface Data[7:0]	AE14, AD14, AC14, AB14, AA14, AB20, AC20, AD20
PCMADR[14:0]/ CI_A[14:0]	Output	PCMCIA Address[14:0] / Common Interface Address[14:0]	AB11, AE12, AD12, AC12, AB12, AA12, AE13, AD13, AC13, AB13, AA13, AE19, AD19, AC19, AB19
PCMIOR/ CI_RD	Output	PCMCIA Input/Output Read / Common Interface Read	AA8
PCMIOW/ CI_WR	Output	PCMCIA Input/Output Write / Common Interface Write	AB8
PCMOEN	Output	PCMCIA Output Enable	AC6
PCMWEN	Output	PCMCIA Write Enable	AC11
PCMREG/ CI_CLK	Output	PCMCIA Register / Common Interface Clock	AE20
PCMCEN/ CI_CS	Output	PCMCIA Card Enable / Common Interface Chip Select	AA10
PCMIROQ/ CI_INT	Input	PCMCIA Interrupt Request / Common Interface Interrupt	AB7
PCMWAIT/ CI_WACK	Input	PCMCIA Extend Bus Wait Cycle / Common Interface Wait Acknowledge	AB10
CI_RST	Output	Common Interface Reset	AC18
CI_CD	Input	Common Interface Card Detect	AA20

TS Input Interface

Pin Name	Pin Type	Function	Pin
TS0CLK	Input w/ 5V-tolerant	TS Clock	AA5
TS0DATA[7:0]	Input w/ 5V-tolerant	TS Data in Parallel; LSB (bit 0) is for serial TS data	AB4, AA4, Y4, W4, V4, U4, T4, R4
TS0VALID	Input w/ 5V-tolerant	TS Data Valid	W5
TS0SYNC	Input w/ 5V-tolerant	TS Sync-Byte Indicator	Y5
TS1CLK	Input w/ 5V-tolerant	2 nd TS Clock	U22
TS1DATA	Input w/ 5V-tolerant	2 nd TS Data in Parallel	V22
TS1VALID	Input w/ 5V-tolerant	2 nd TS Data Valid	Y22
TS1SYNC	Input w/ 5V-tolerant	2 nd TS Sync-Byte Indicator	W22

2. Detailed ICs Information, DUNTKF639WE (Main Unit) (continued)

2.3. IC 1001 (MSD3303GX)

2.3.3. Pin Description (continued)

DVI/HDMI Interface

Pin Name	Pin Type	Function	Pin
RXACKN	DVI/HDMI Input	Negative DVI/HDMI Input for A Link Clock Channel	F2
RXACKP	DVI/HDMI Input	Positive DVI/HDMI Input for A Link Clock Channel	F1
RXA0N	DVI/HDMI Input	Negative DVI/HDMI Input for A Link Data Channel 0	G3
RXA0P	DVI/HDMI Input	Positive DVI/HDMI Input for A Link Data Channel 0	G2
RXA1N	DVI/HDMI Input	Negative DVI/HDMI Input for A Link Data Channel 1	G1
RXA1P	DVI/HDMI Input	Positive DVI/HDMI Input for A Link Data Channel 1	H3
RXA2N	DVI/HDMI Input	Negative DVI/HDMI Input for A Link Data Channel 2	H2
RXA2P	DVI/HDMI Input	Positive DVI/HDMI Input for A Link Data Channel 2	H1
RXBCKN	DVI/HDMI Input	Negative DVI/HDMI Input for B Link Clock Channel	B1
RXBCKP	DVI/HDMI Input	Positive DVI/HDMI Input for B Link Clock Channel	C3
RXB0N	DVI/HDMI Input	Negative DVI/HDMI Input for B Link Data Channel 0	C2
RXB0P	DVI/HDMI Input	Positive DVI/HDMI Input for B Link Data Channel 0	C1
RXB1N	DVI/HDMI Input	Negative DVI/HDMI Input for B Link Data Channel 1	D3
RXB1P	DVI/HDMI Input	Positive DVI/HDMI Input for B Link Data Channel 1	D2
RXB2N	DVI/HDMI Input	Negative DVI/HDMI Input for B Link Data Channel 2	D1
RXB2P	DVI/HDMI Input	Positive DVI/HDMI Input for B Link Data Channel 2	E3
RXCCKN	DVI/HDMI Input	Negative DVI/HDMI Input for C Link Clock Channel	AC8
RXCCKP	DVI/HDMI Input	Positive DVI/HDMI Input for C Link Clock Channel	AD8
RXC0N	DVI/HDMI Input	Negative DVI/HDMI Input for C Link Data Channel 0	AE8
RXC0P	DVI/HDMI Input	Positive DVI/HDMI Input for C Link Data Channel 0	AC9
RXC1N	DVI/HDMI Input	Negative DVI/HDMI Input for C Link Data Channel 1	AD9
RXC1P	DVI/HDMI Input	Positive DVI/HDMI Input for C Link Data Channel 1	AE9
RXC2N	DVI/HDMI Input	Negative DVI/HDMI Input for C Link Data Channel 2	AD10
RXC2P	DVI/HDMI Input	Positive DVI/HDMI Input for C Link Data Channel 2	AE10

SOURCE OF DOCUMENTATION

IC201 (MSB1220) LE210 Series

MSTAR Semiconductor: Preliminary Product Brief Version 0.1.
Low Power DVB-T Demodulator.
Doc. No.: msb1220_pb_v01. January 2009.

IC201 (MSB1222) Lx220 Series

MSTAR Semiconductor: Preliminary Product Brief Version 0.1.
Low Power DVB-T/C Demodulator.
Doc. No.: msb1222_pb_v01. January 2009.

IC 306 (MSH 9000-LF)

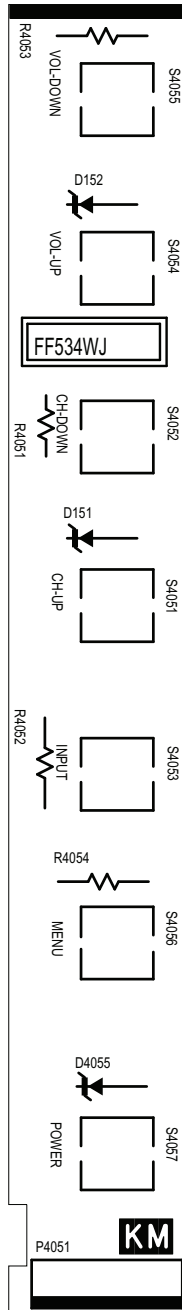
MSTAR Semiconductor; Preliminary Product Brief Version 0.3.
Power Management IC.
Doc. No.: MSH9000_pb_v03. April 2009.

IC1001 (MSD3303GX)

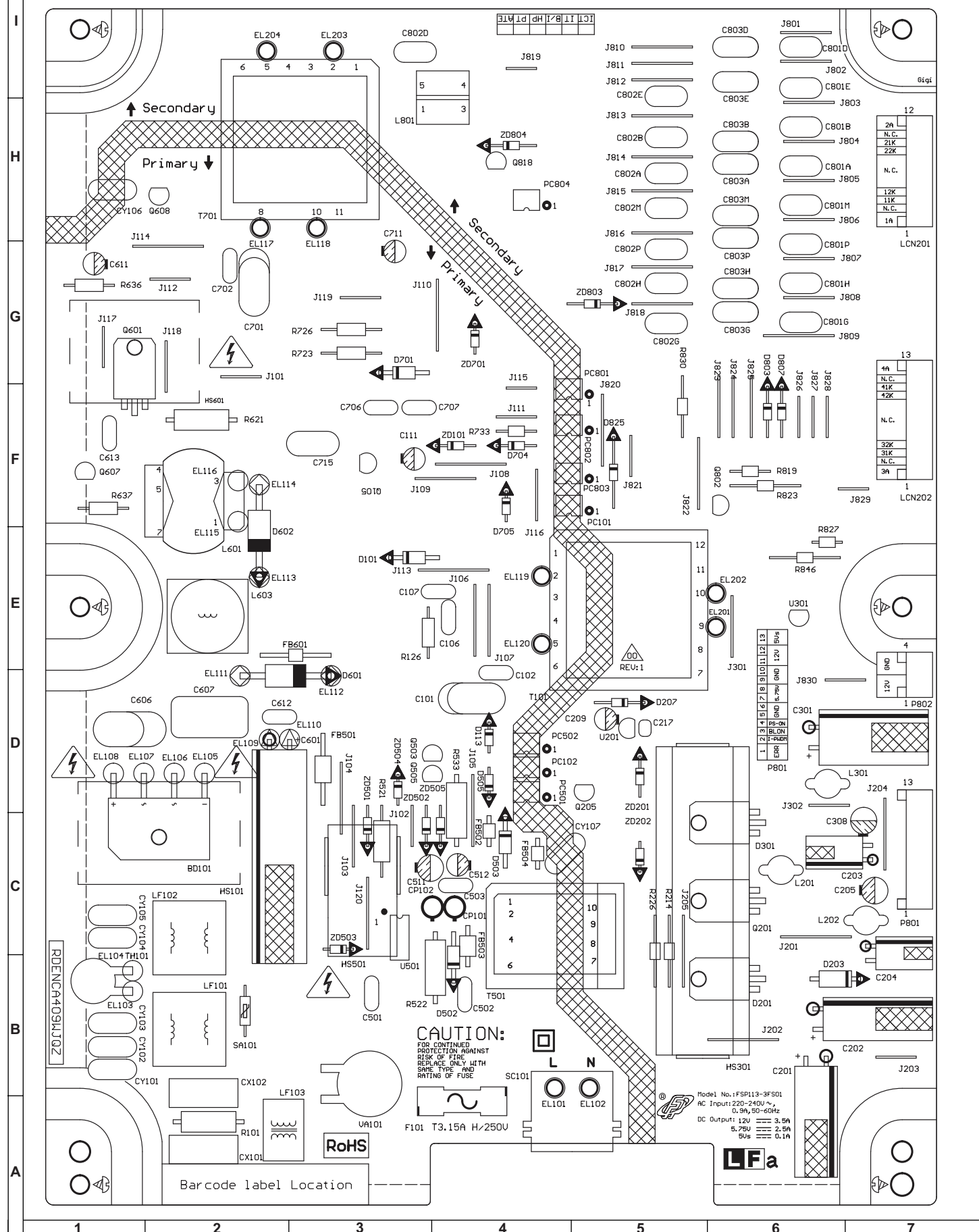
MSTAR Semiconductor; Preliminary Pin Diagram and Description. Version 0.2.
DVB LCD/PDP DTV Processor.
Doc. No.: MSD3303GX_pin_v02 . April 2009.

MSTAR Semiconductor; Block Diagram. Version 0.1.
All-in-one DTV Processor.
Doc. No.: MSD3303GX_bd_v01. April 2009.

KEY Unit Layout QPWBFF534WJ



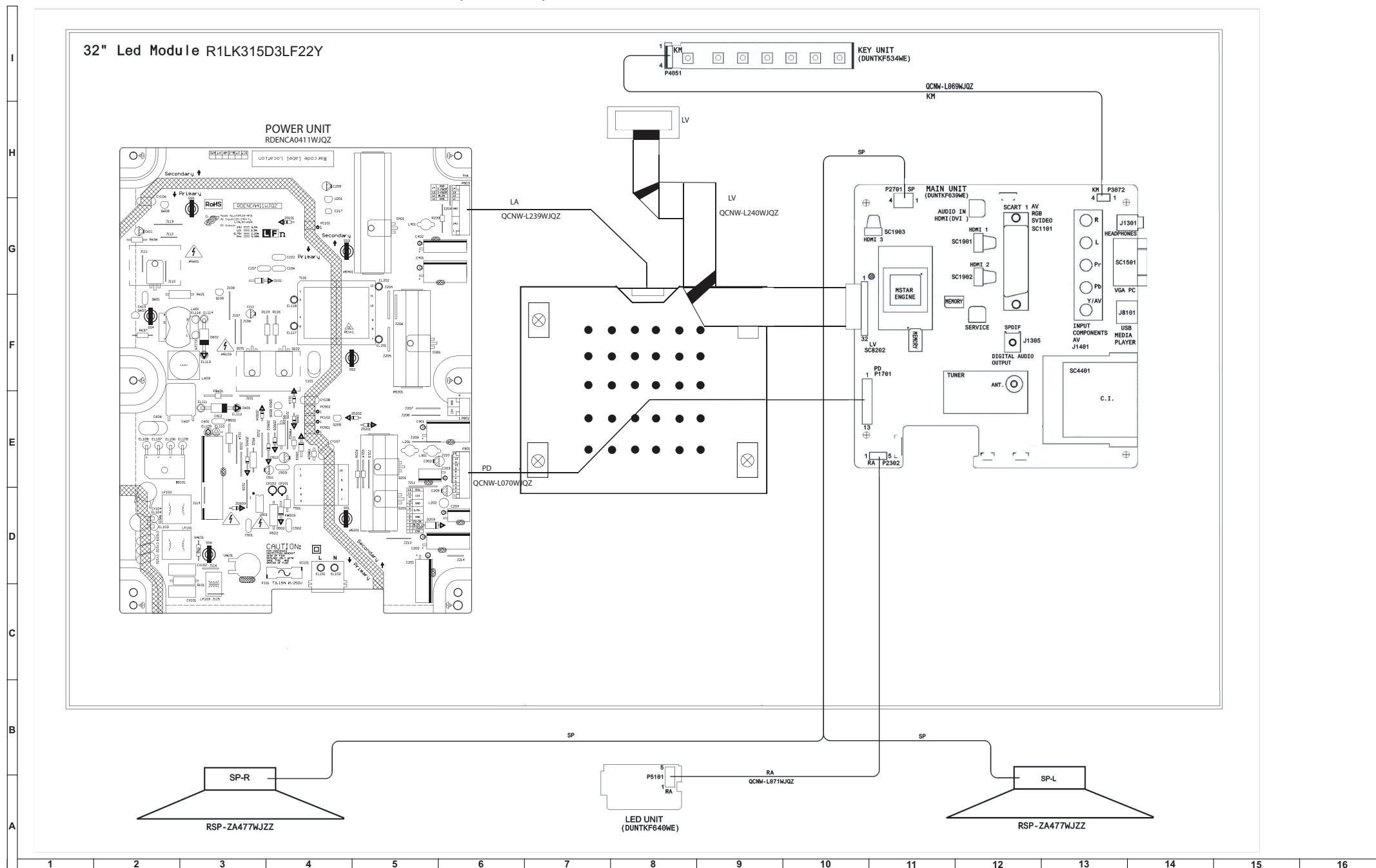
RDENCA409WJQZ



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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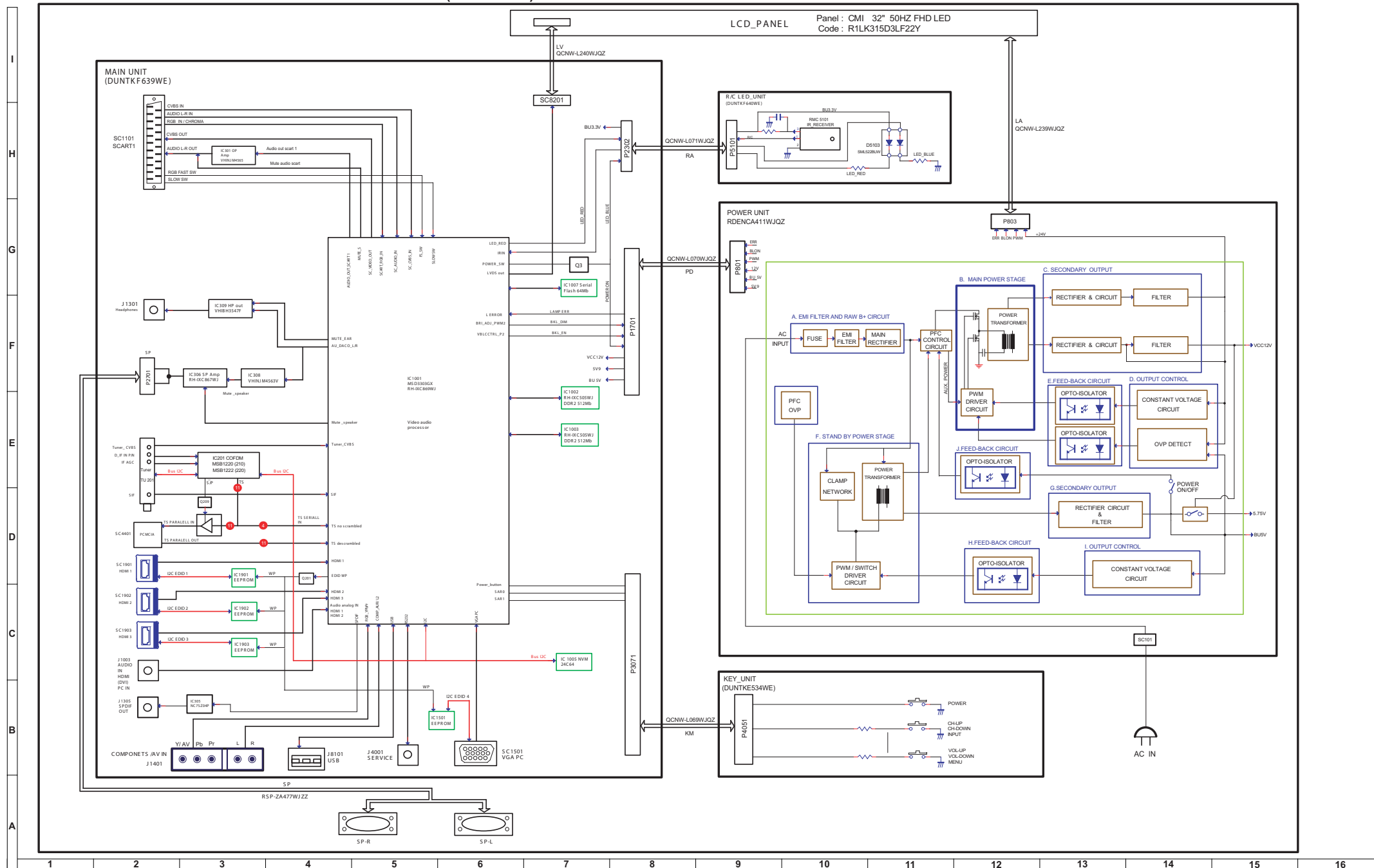
OVERALL WIRING DIAGRAM LC32LE210/220EB MODELS (CMI PANEL)



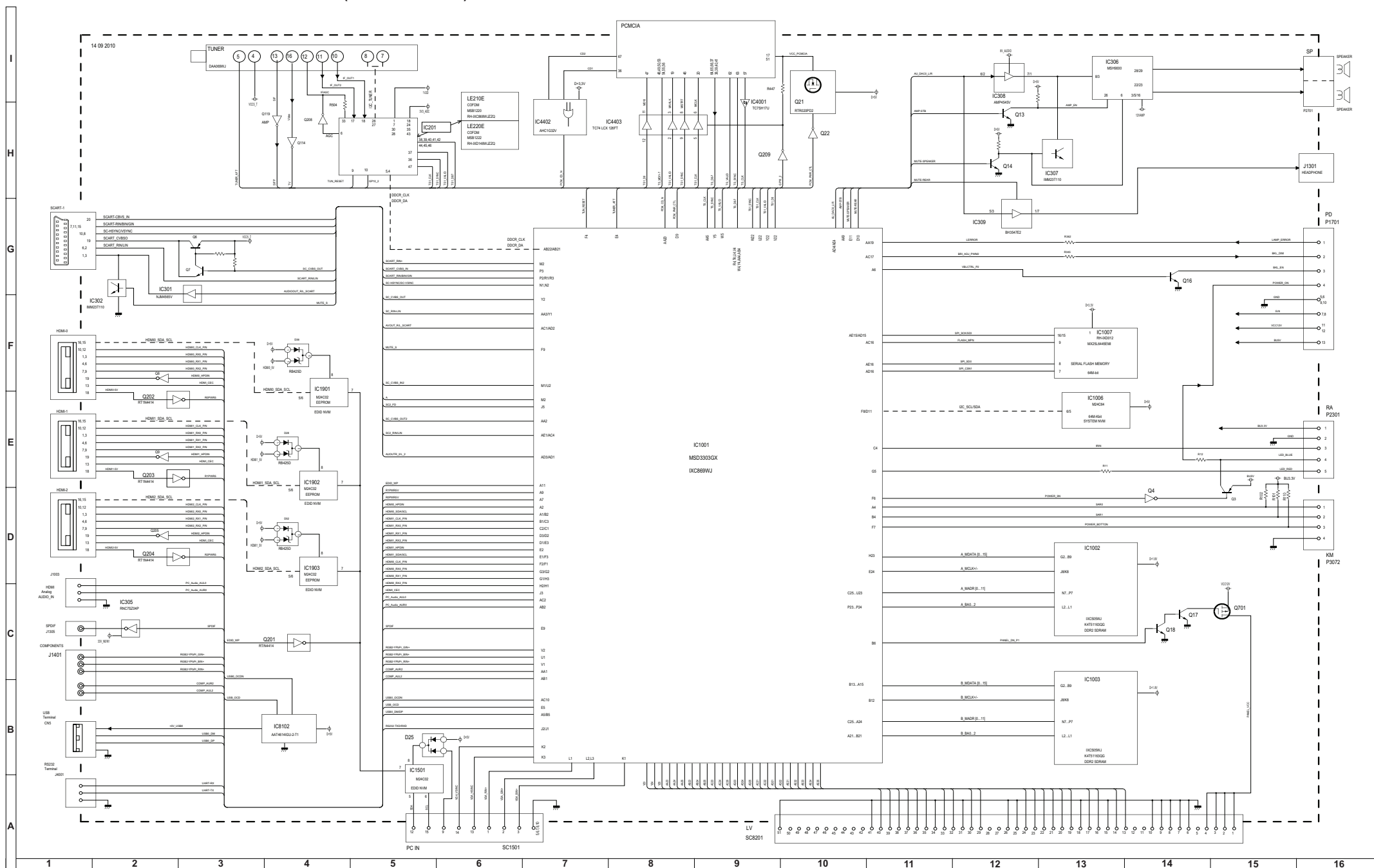
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SYSTEM BLOCK DIAGRAM LC32LE210/220EB MODELS (CMI PANEL)



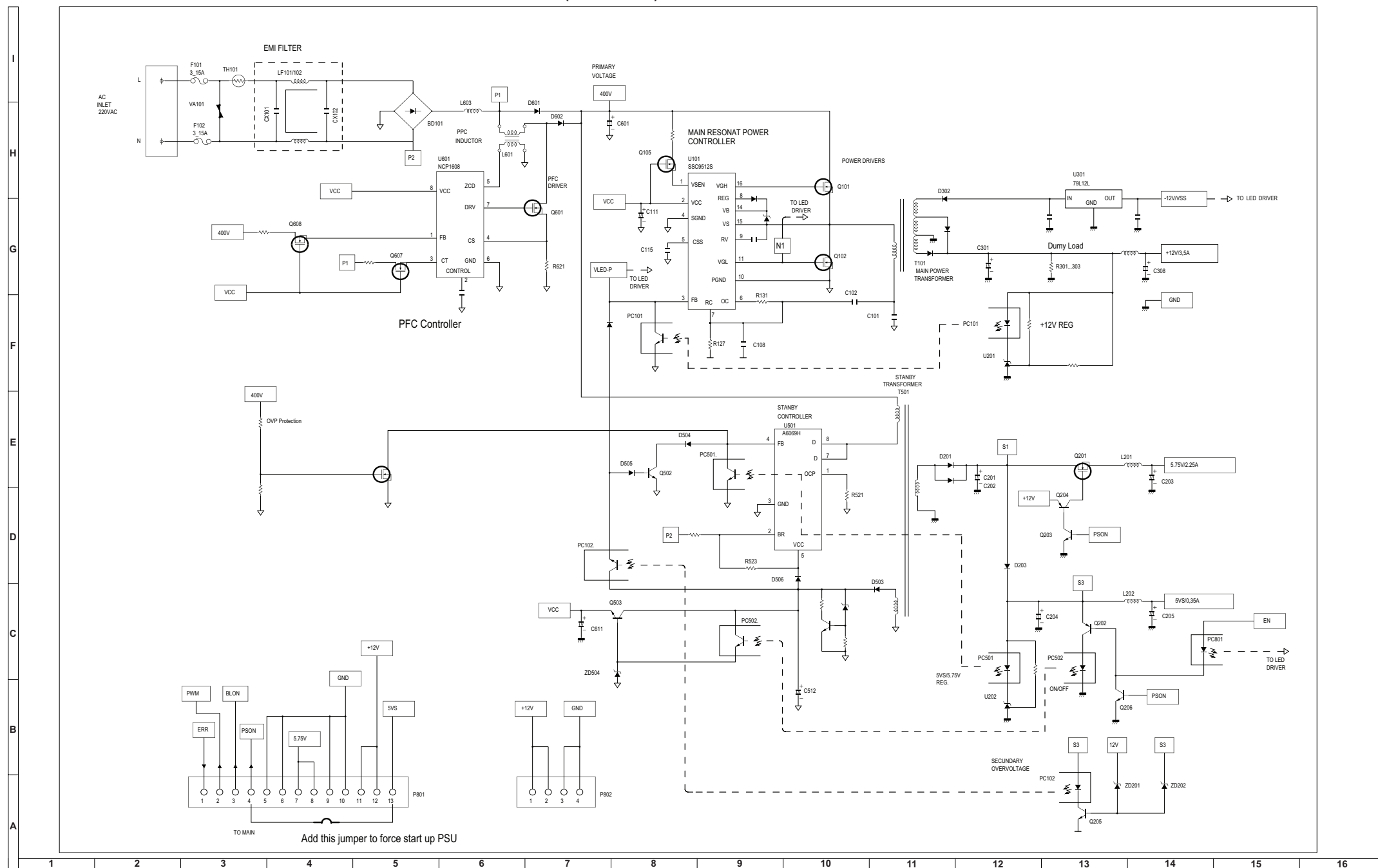
MAIN BLOCK DIAGRAM LC32LE210/220 (AUO/CMI PANEL)



POWER BLOCK DIAGRAM RDENCA409WJQZ LC32LE210/220E MODELS (AUO PANEL)

1/2

MAIN POWER

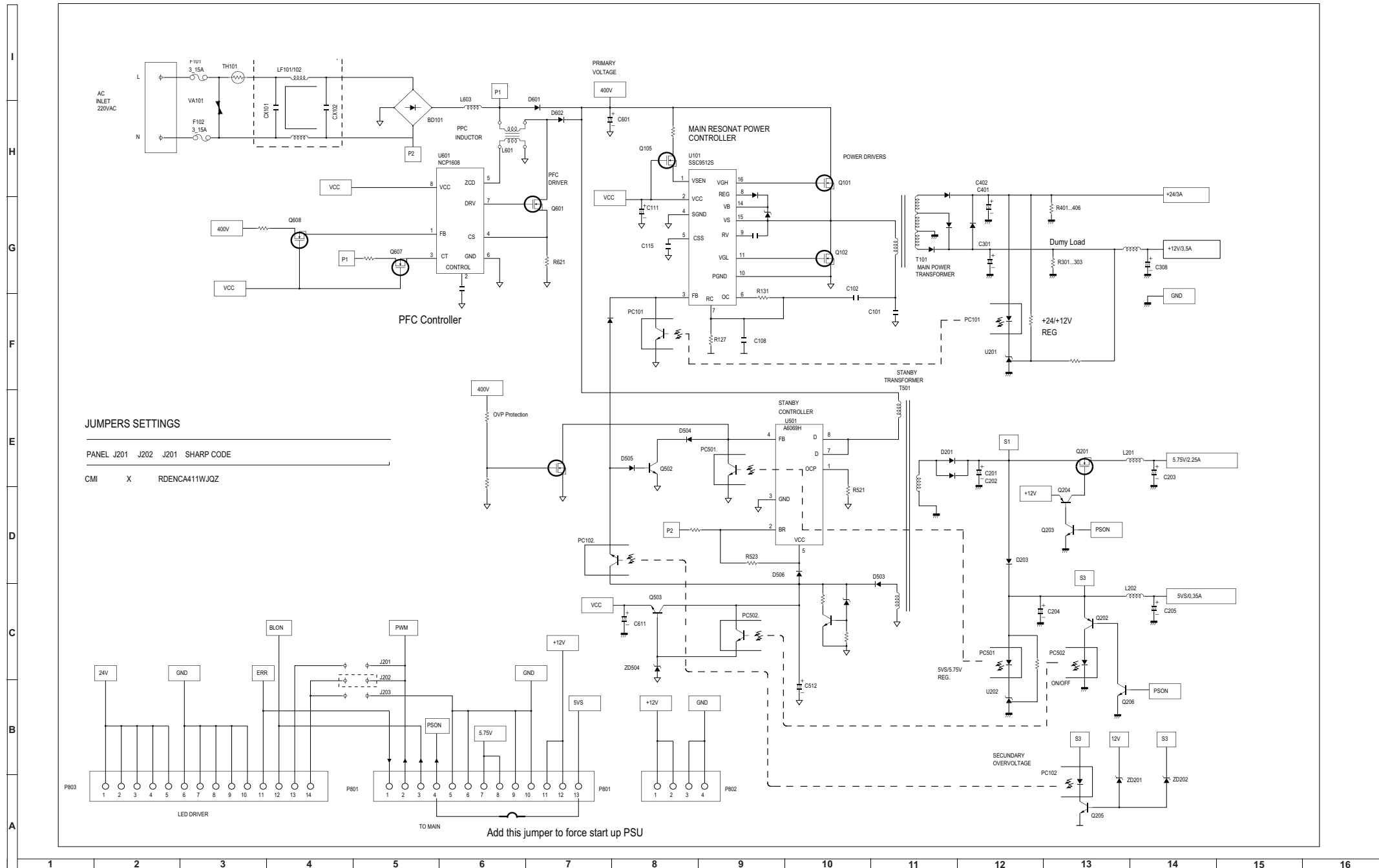




POWER BLOCK DIAGRAM RDENCA411WJQZ LC32LE210/220EB MODELS (CMI PANEL)

1/1

MAIN POWER



SCHEMATIC DIAGRAMS

Description:

VOLTAGE MEASUREMENT CONDITION:

1. The voltages at test points are measured on the stable supply voltage of AC 230V. Signals are fed by a color bar signal generator for servicing purpose and the above voltages are measured with a 20k ohm/V tester.

INDICATION OF RESISTOR & CAPACITOR:

RESISTOR

1. The unit of resistance "Ω" is omitted. (K=kΩ=1000 Ω, M=MΩ).
2. All resistors are ± 5%, unless otherwise noted. (J= ± 5%, F= ± 1%, D= ± 0.5%)
3. All resistors are 1/16W, unless otherwise noted.
4. All resistors are Carbon type, unless otherwise noted.

- (C): Solid
 (S): Oxide Film
 (N): Metal Coating
- (W): Cement
 (T): Special

CAPACITOR

1. All capacitors are μF, unless otherwise noted. (P=pF=μμ F).
 2. All capacitors are 50V, unless otherwise noted.
 3. All capacitors are Ceramic type, unless otherwise noted.
- (ML): Mylar
 (PF): Polypro Film
- (TA): Tantalum
 (ST): Styrol

CAUTION:

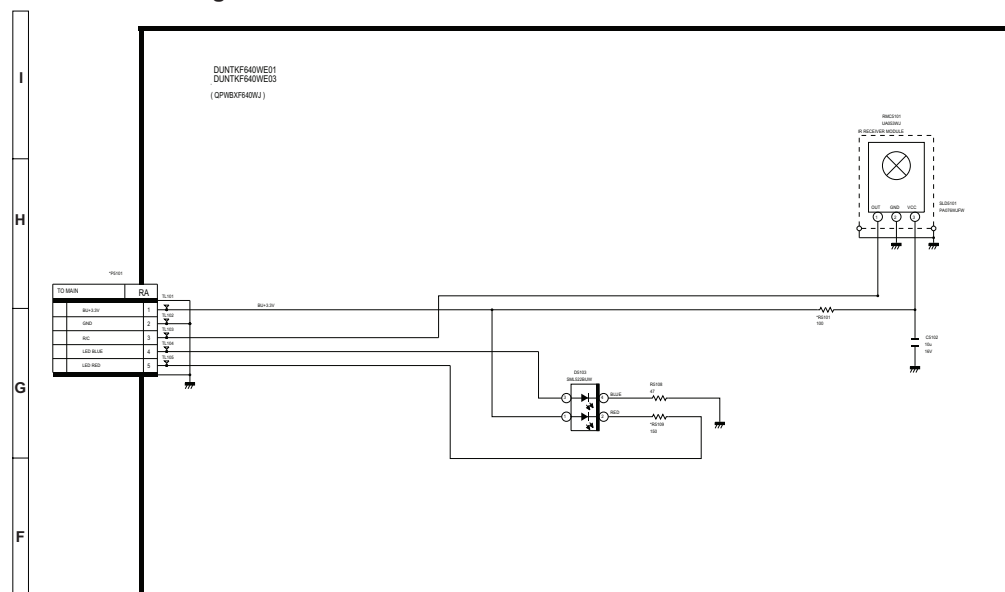
This circuit diagram is original one, therefore there may be a slight difference from yours.

IMPORTANT SAFETY NOTICE:

PARTS MARKED WITH "⚠" () ARE IMPORTANT FOR MAINTAINING THE SAFETY OF THE SET. BE SURE TO REPLACE THESE PARTS WITH SPECIFIED ONES FOR MAINTAINING THE SAFETY AND PERFORMANCE OF THE SET.

LED Unit Diagram

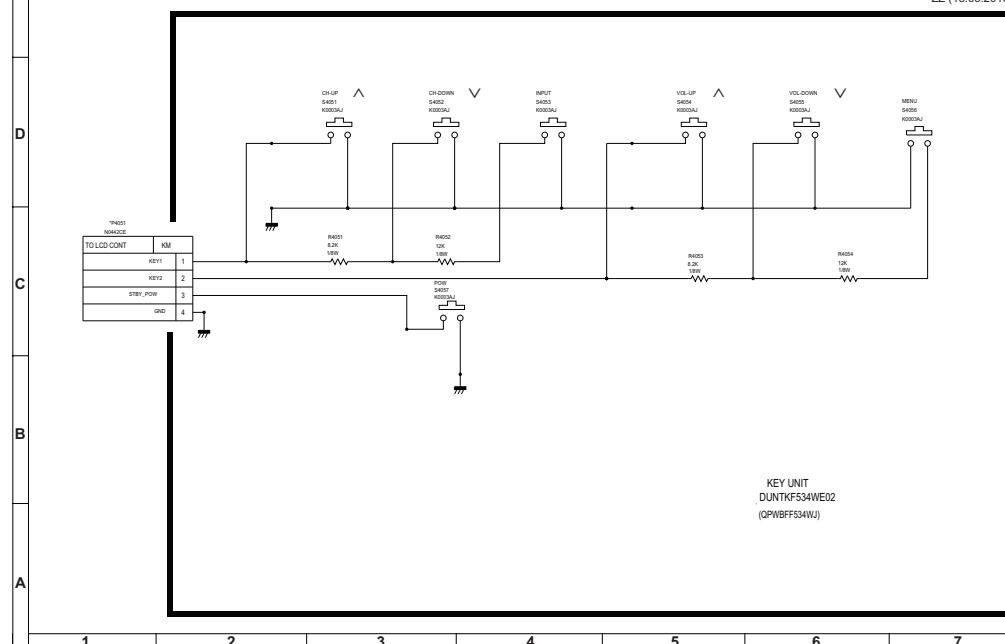
DUNTKF640WE01 / 03



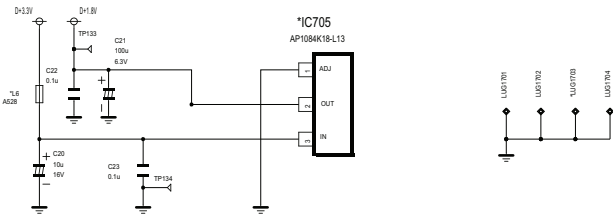
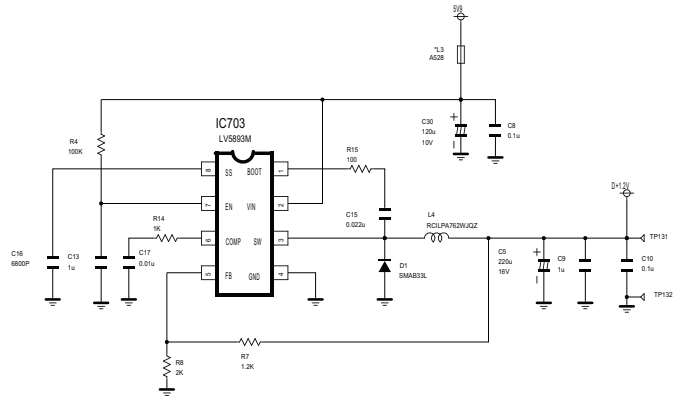
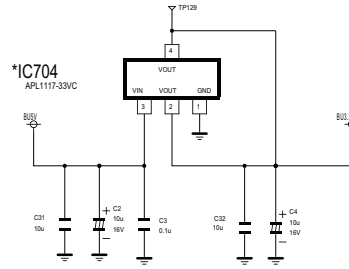
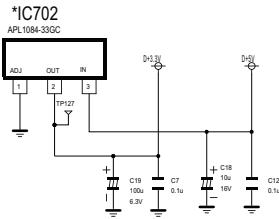
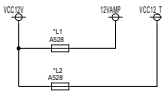
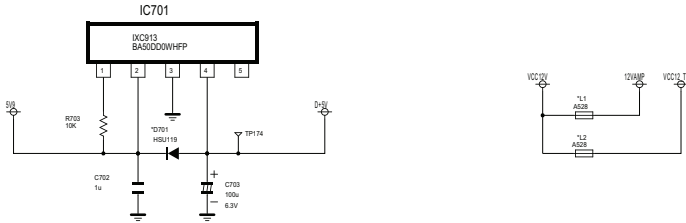
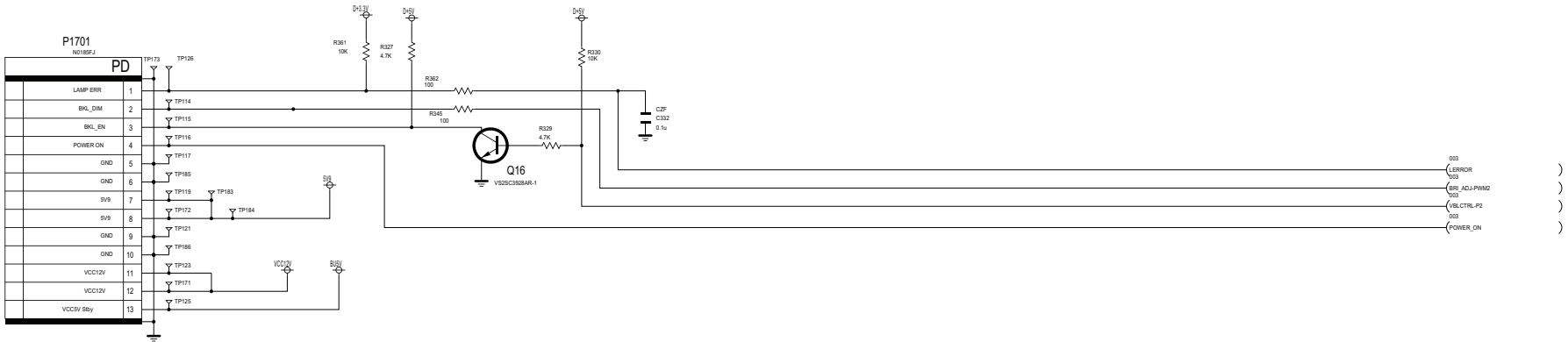
KEY Unit Diagram

DUNTKF534WE02

ZZ (18.05.2010)

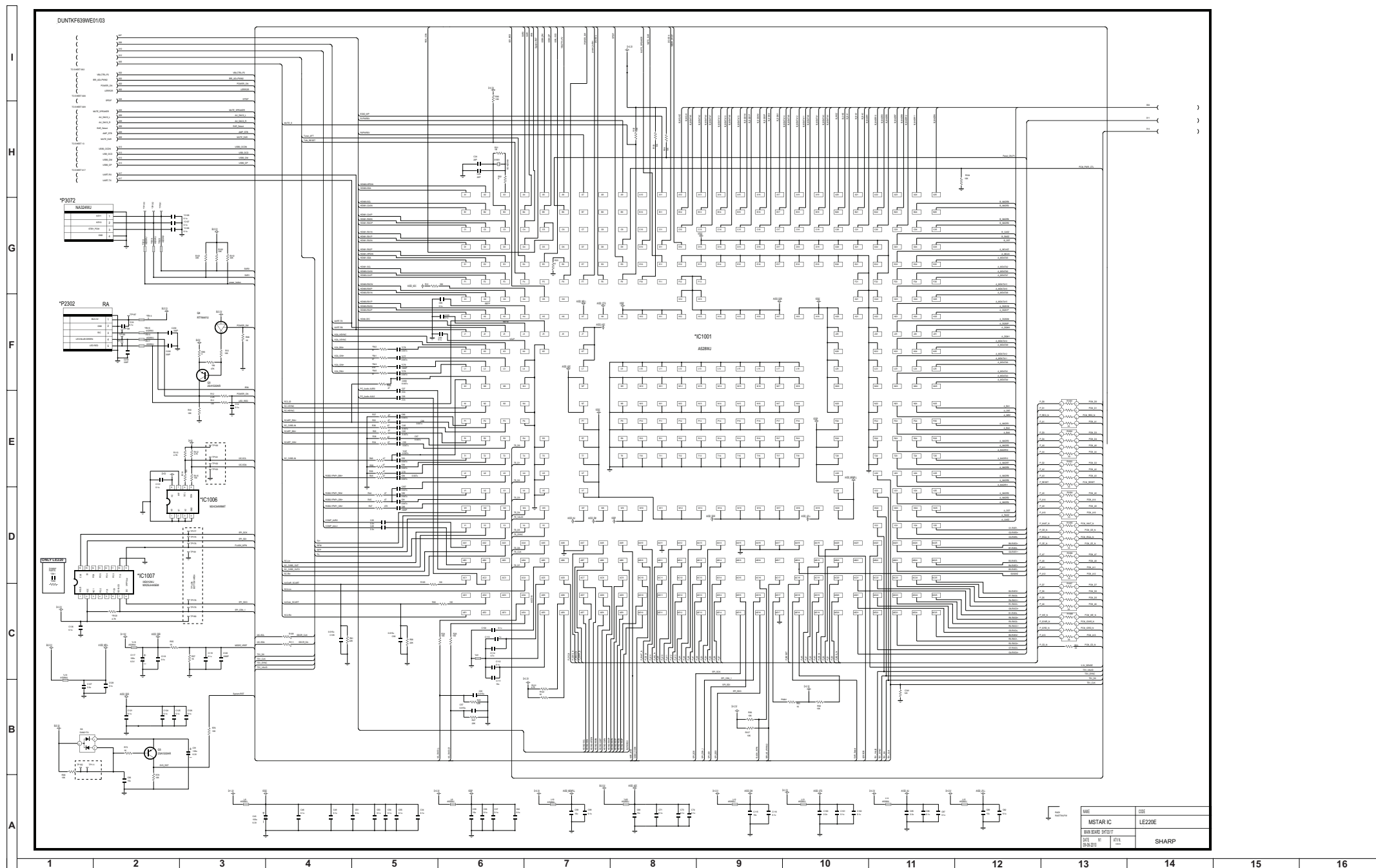


DUNTKF639WE01/03



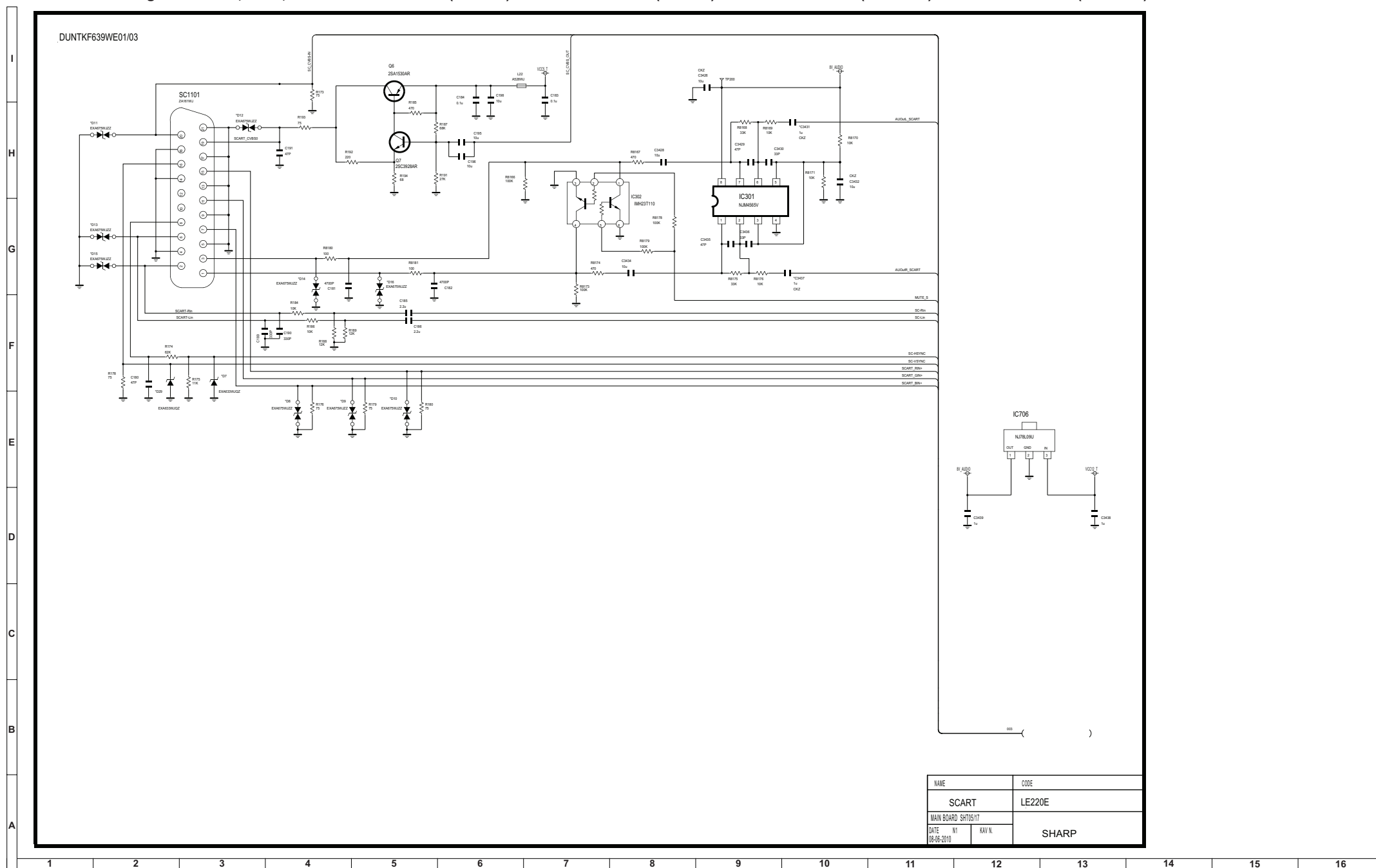
NAME		CODE
System Power		LE220E
MAIN BOARD: SHT02H17		SHARP
DATE: 09-06-2010	ATV N. *****	

Main Unit Diagram 2/14 (MSTAR IC) DUNTKF639WE01 (LE210E) DUNTKF639WE03 (Lx220E) DUNTKF639WE04 (LE210EB) DUNTKF639WE05 (Lx220EB)

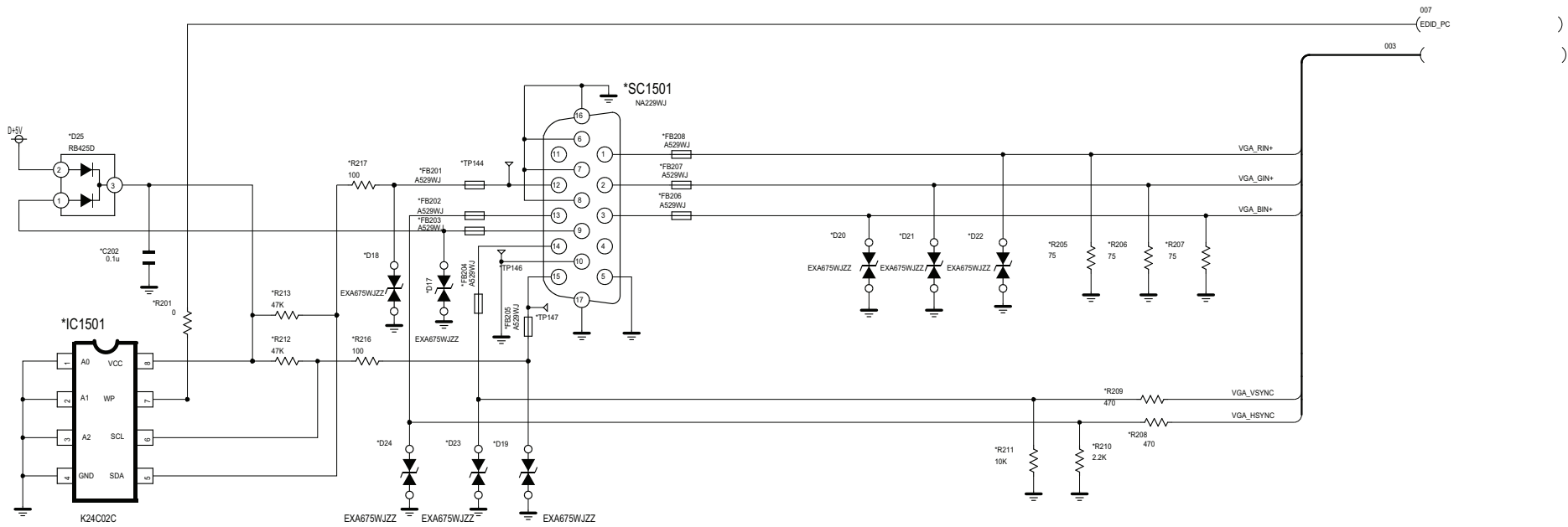




Main Unit Diagram 4/14 (SCART) DUNTKF639WE01 (LE210E) DUNTKF639WE03 (Lx220E) DUNTKF639WE04 (LE210EB) DUNTKF639WE05 (Lx220EB)

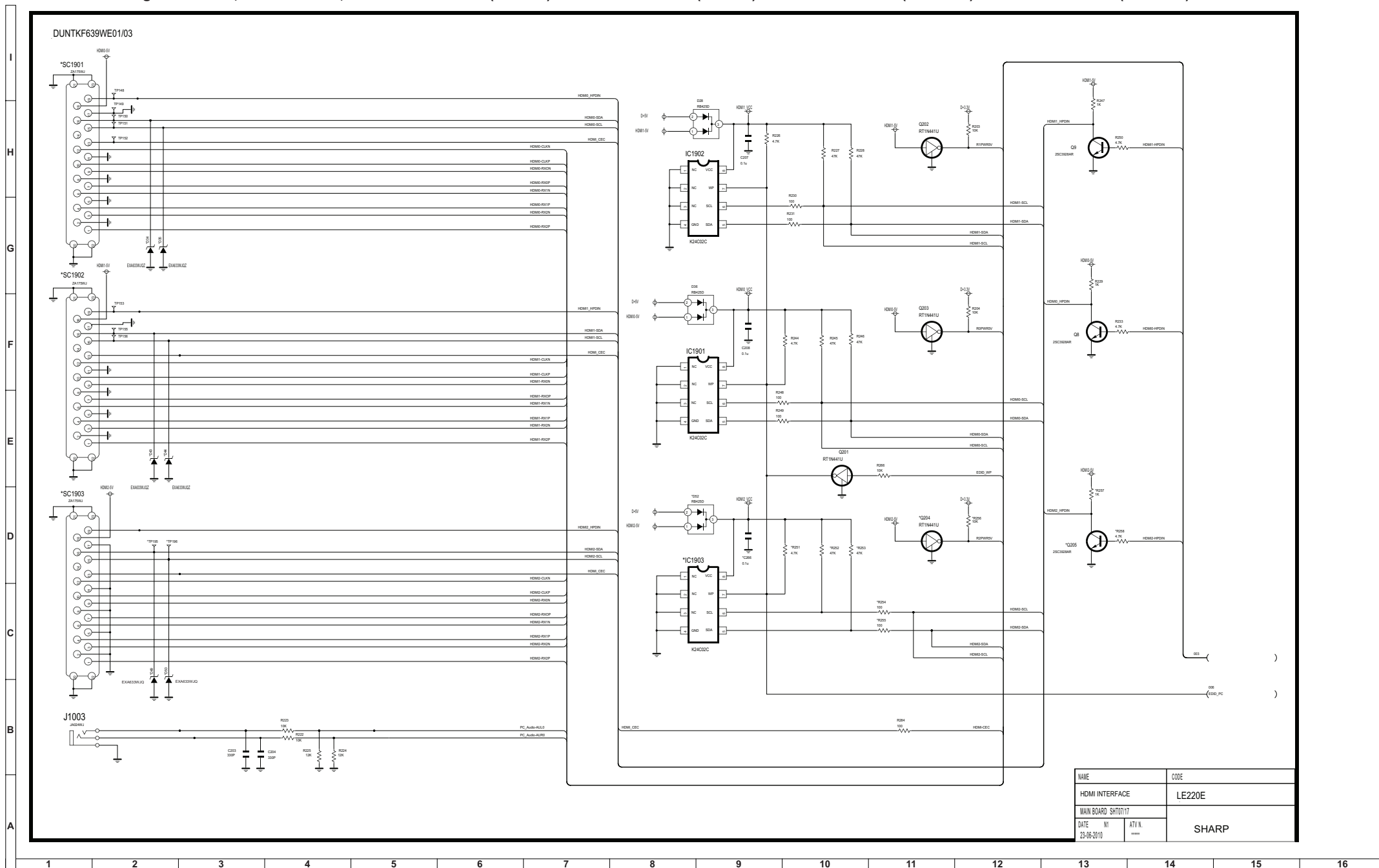


DUNTKF639WE01/03

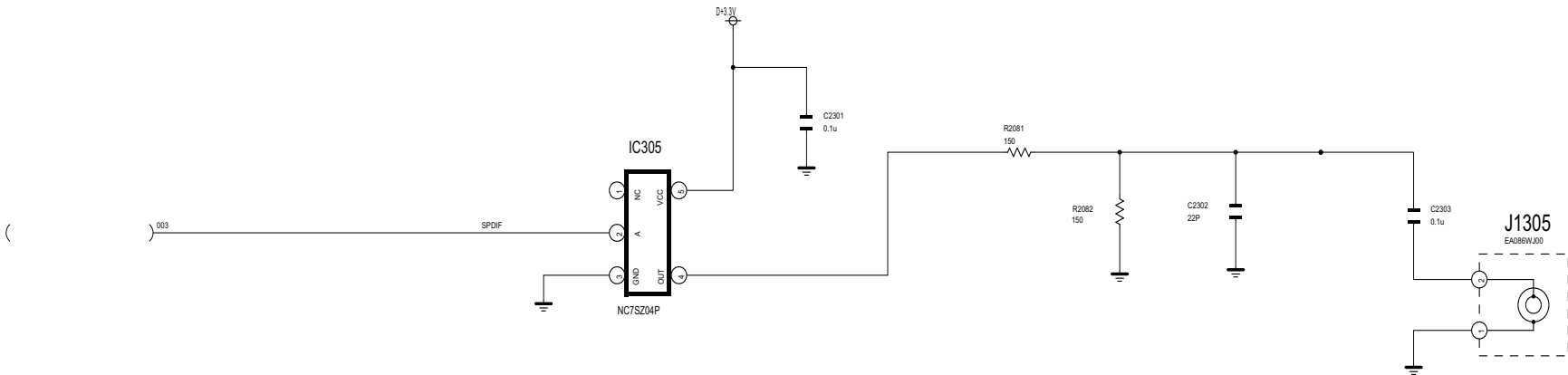


NAME		CODE
VGA		LE220E
MAIN BOARD SHT06/17		SHARP
DATE N1 08-06-2010	KAV N.	

Main Unit Diagram 6/14 (HDMI INTERFACE) DUNTKF639WE01 (LE210E) DUNTKF639WE03 (Lx220E) DUNTKF639WE04 (LE210EB) DUNTKF639WE05 (Lx220EB)



DUNTKF639WE01/03



NAME		CODE
AUDIO INTERFACE		LE220E
MAIN BOARD SHT08/17		SHARP
DATE N1	KAV N.	
19-05-2010		



I

H

G

F

E

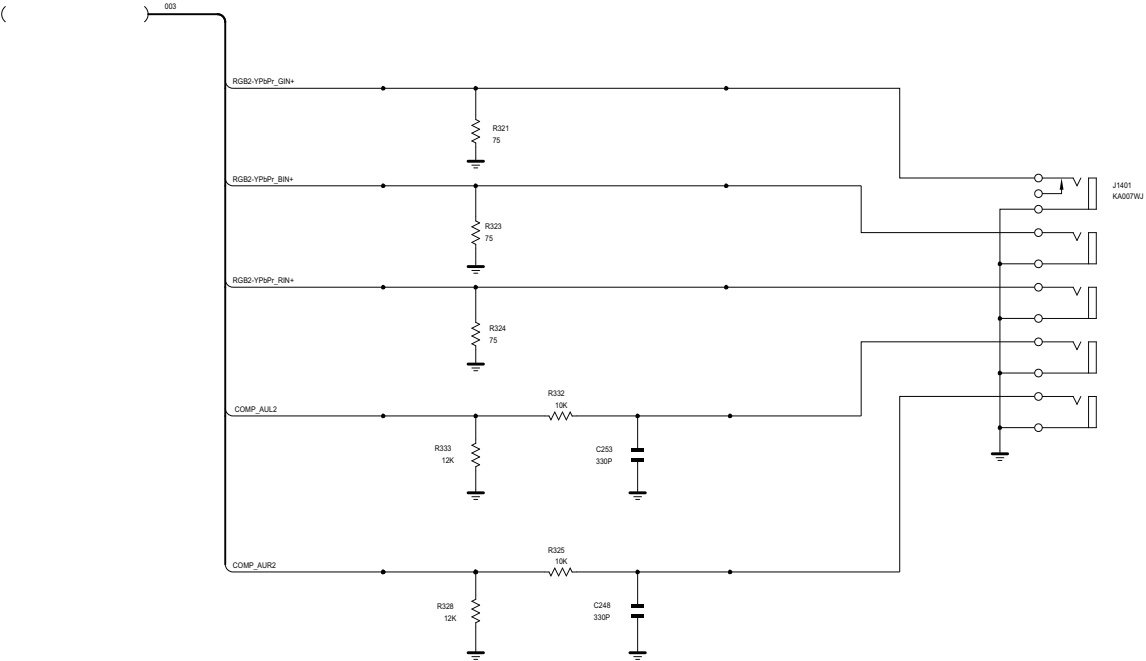
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C

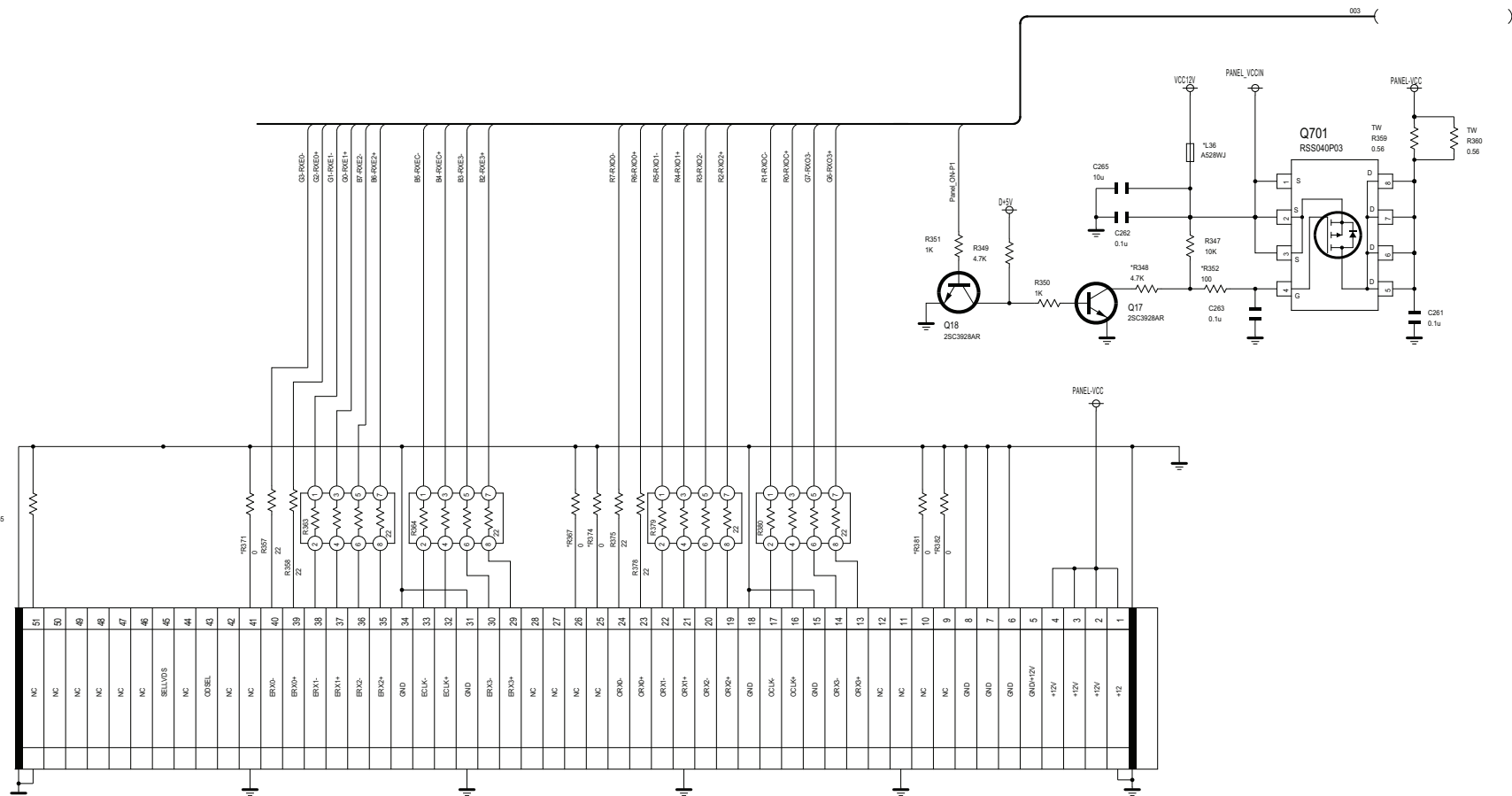
B

A

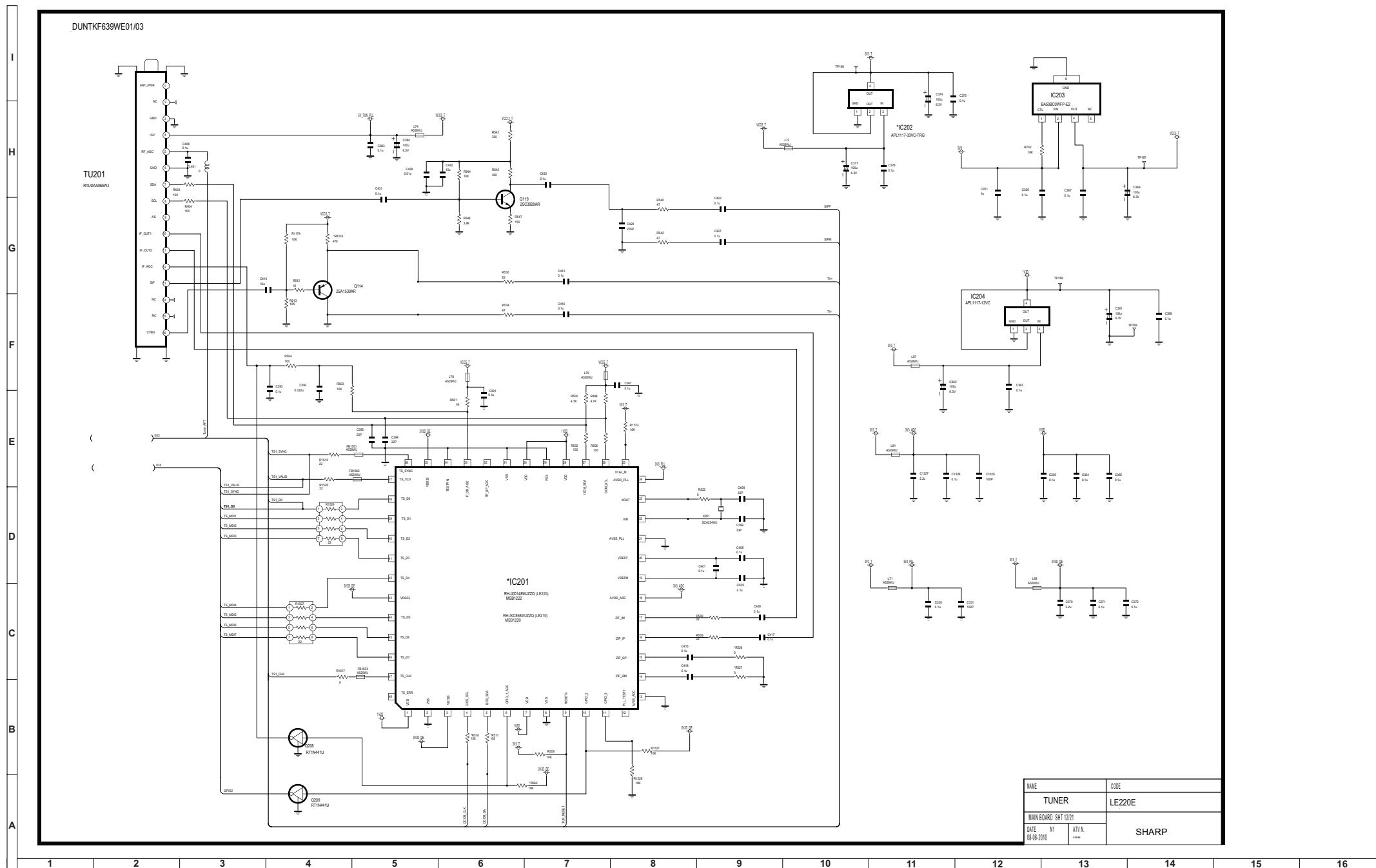
DUNTKF639WE01/03

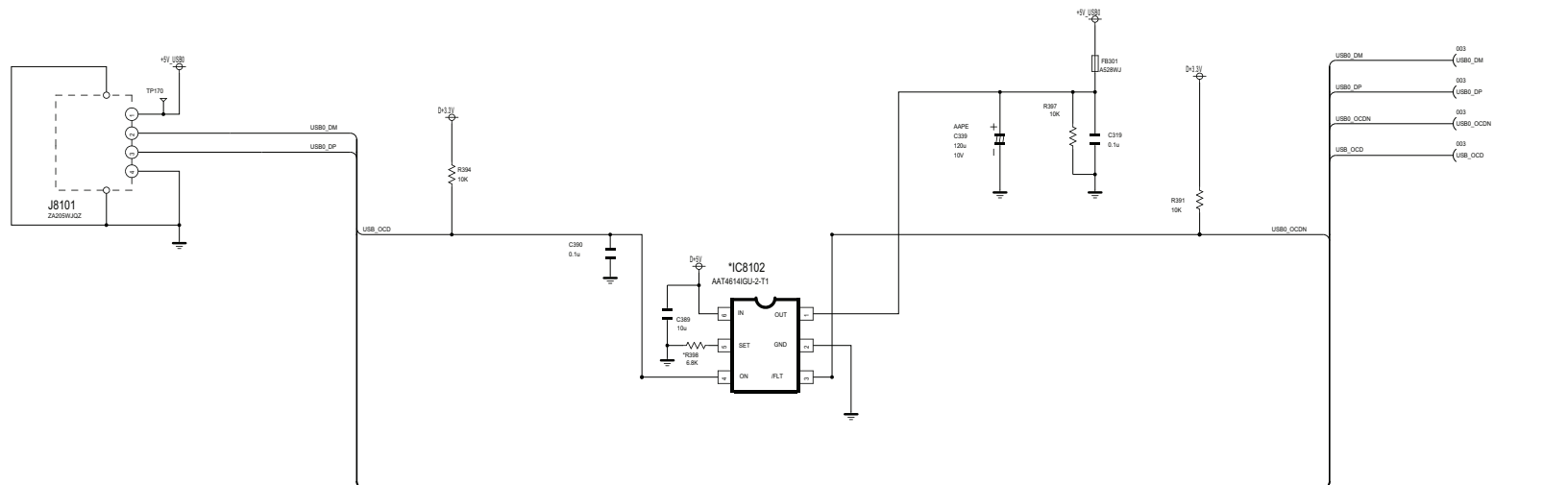


NAME		CODE
VIDEO INTERFACE		LE220E
MAIN BOARD SHT10/17		SHARP
DATE	N1	
19-05-2010		
KAY N.		

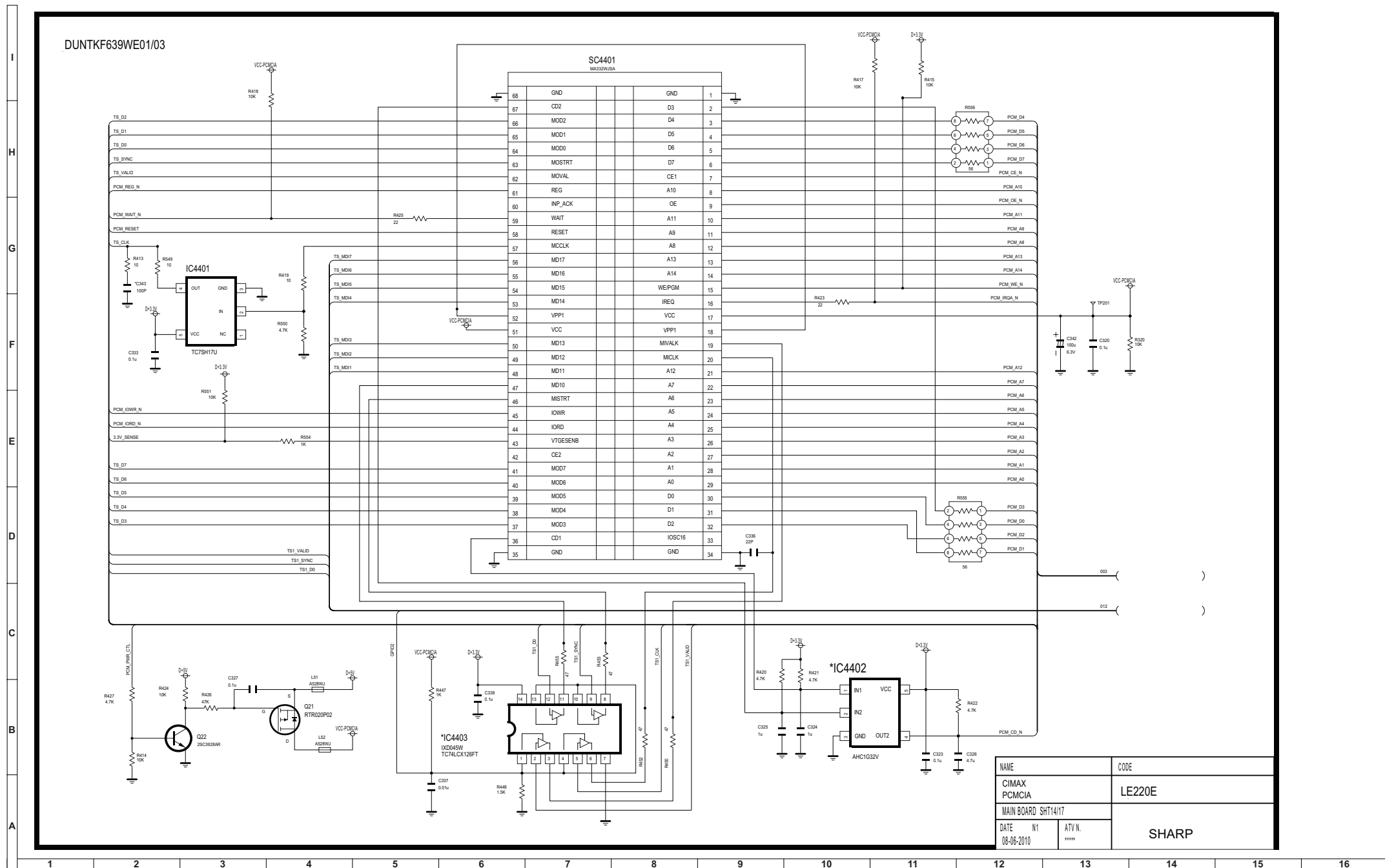


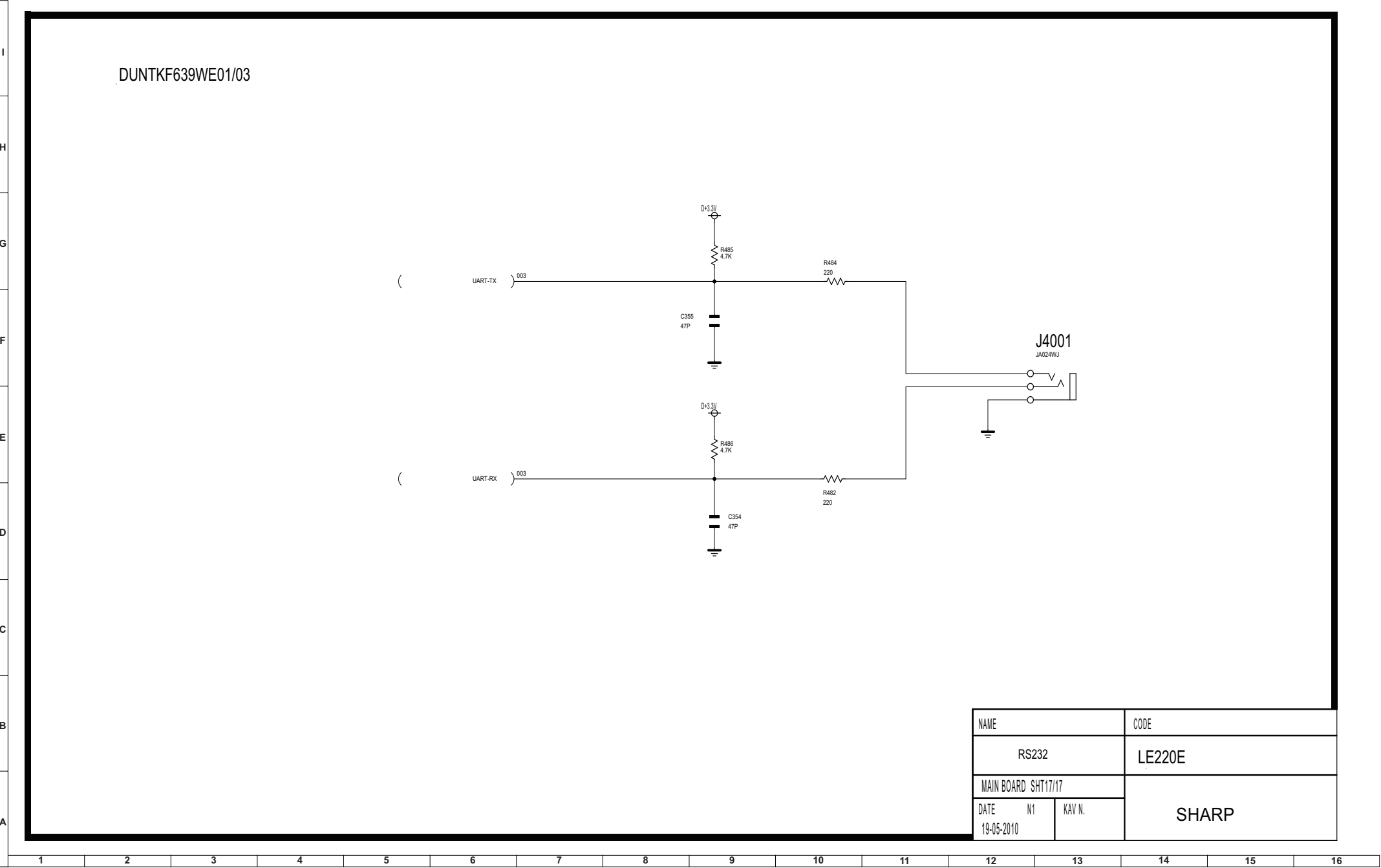
NAME		CODE
PANEL INTERFACE		LE220E
MAIN BOARD SHT11/17		SHARP
DATE N°1 07-07-2010	ATV N.	



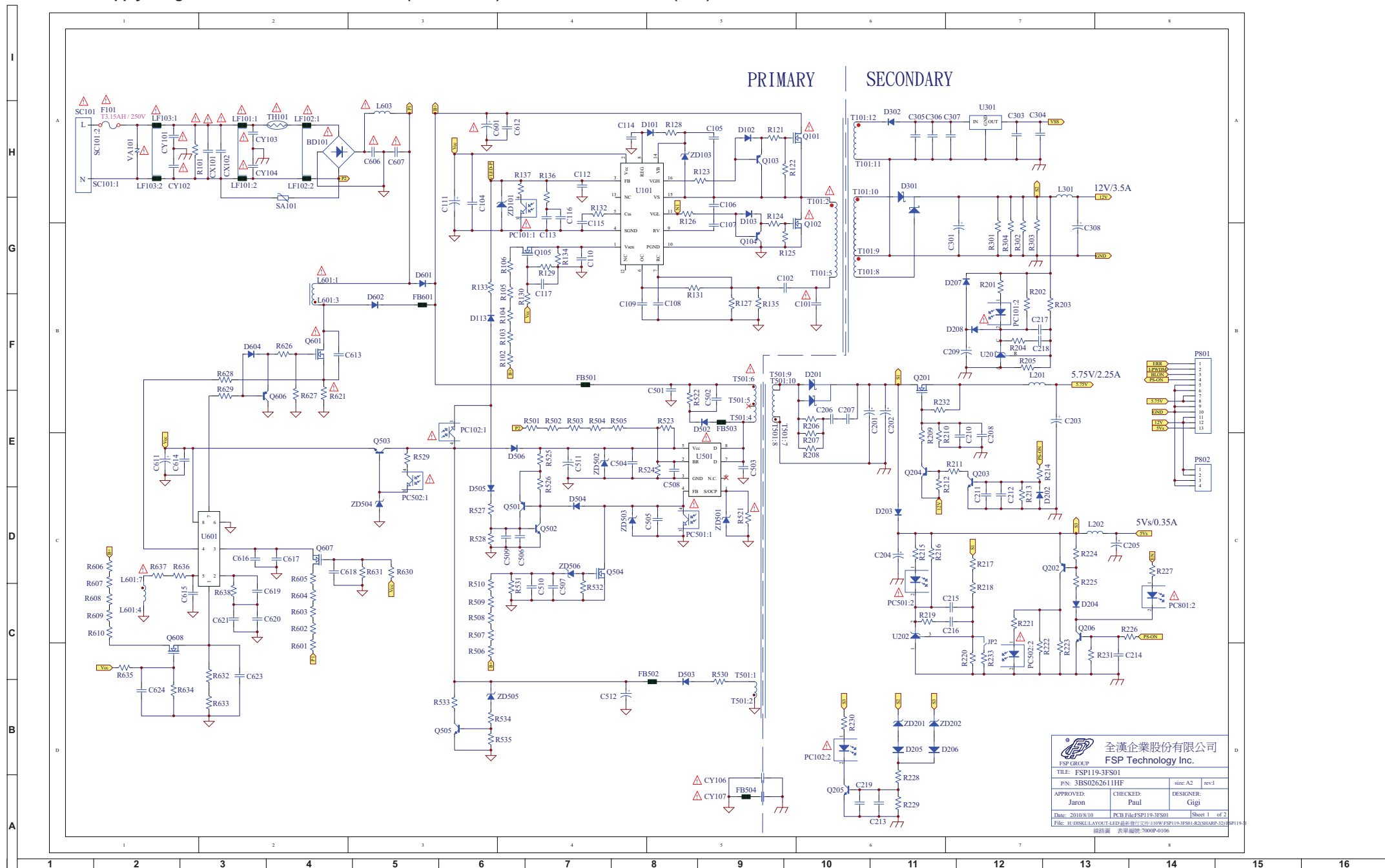
63

Main Unit Diagram 13/14 (PCMCIA) DUNTKF639WE01 (LE210E) DUNTKF639WE03 (Lx220E) DUNTKF639WE04 (LE210EB) DUNTKF639WE05 (Lx220EB)

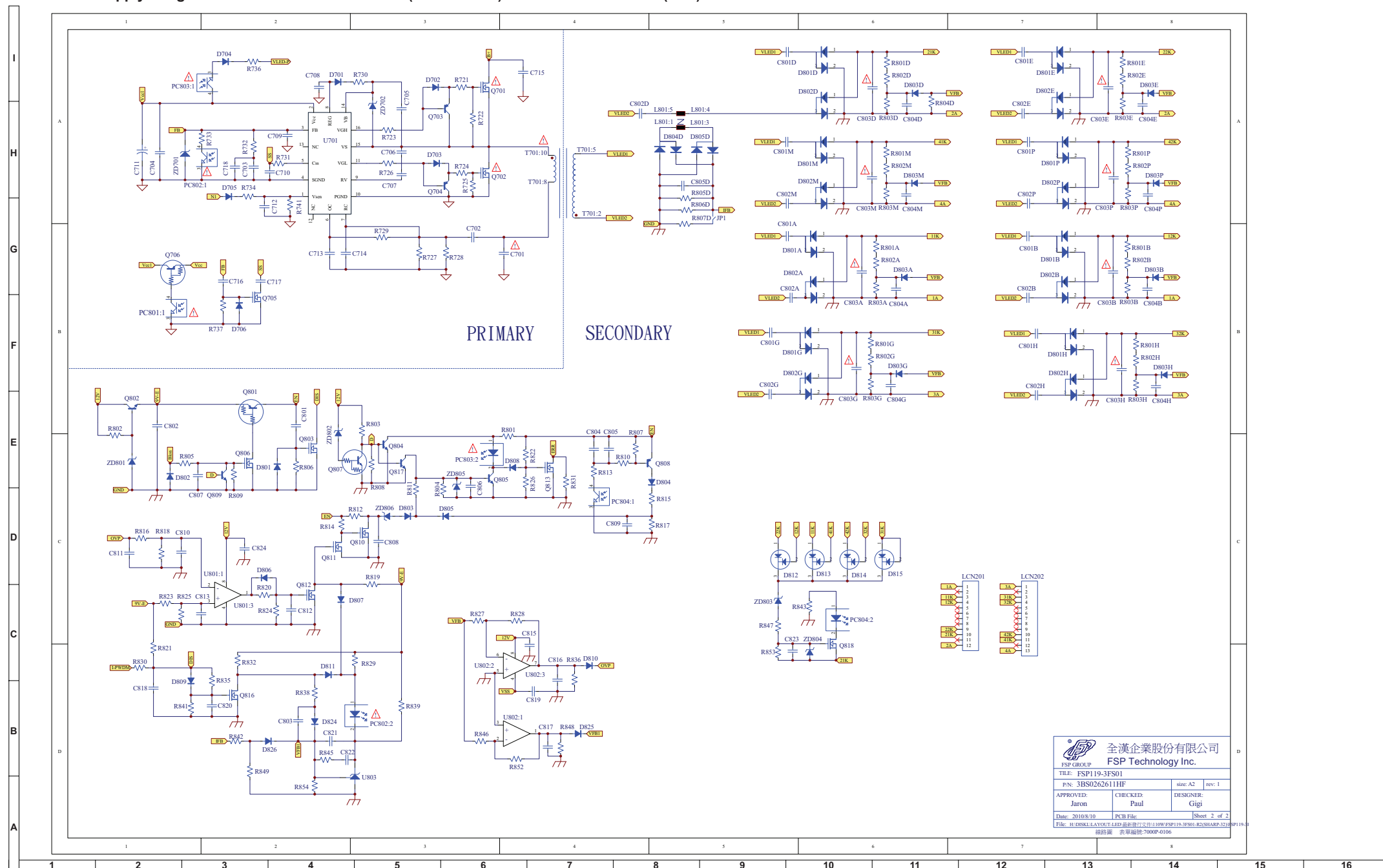




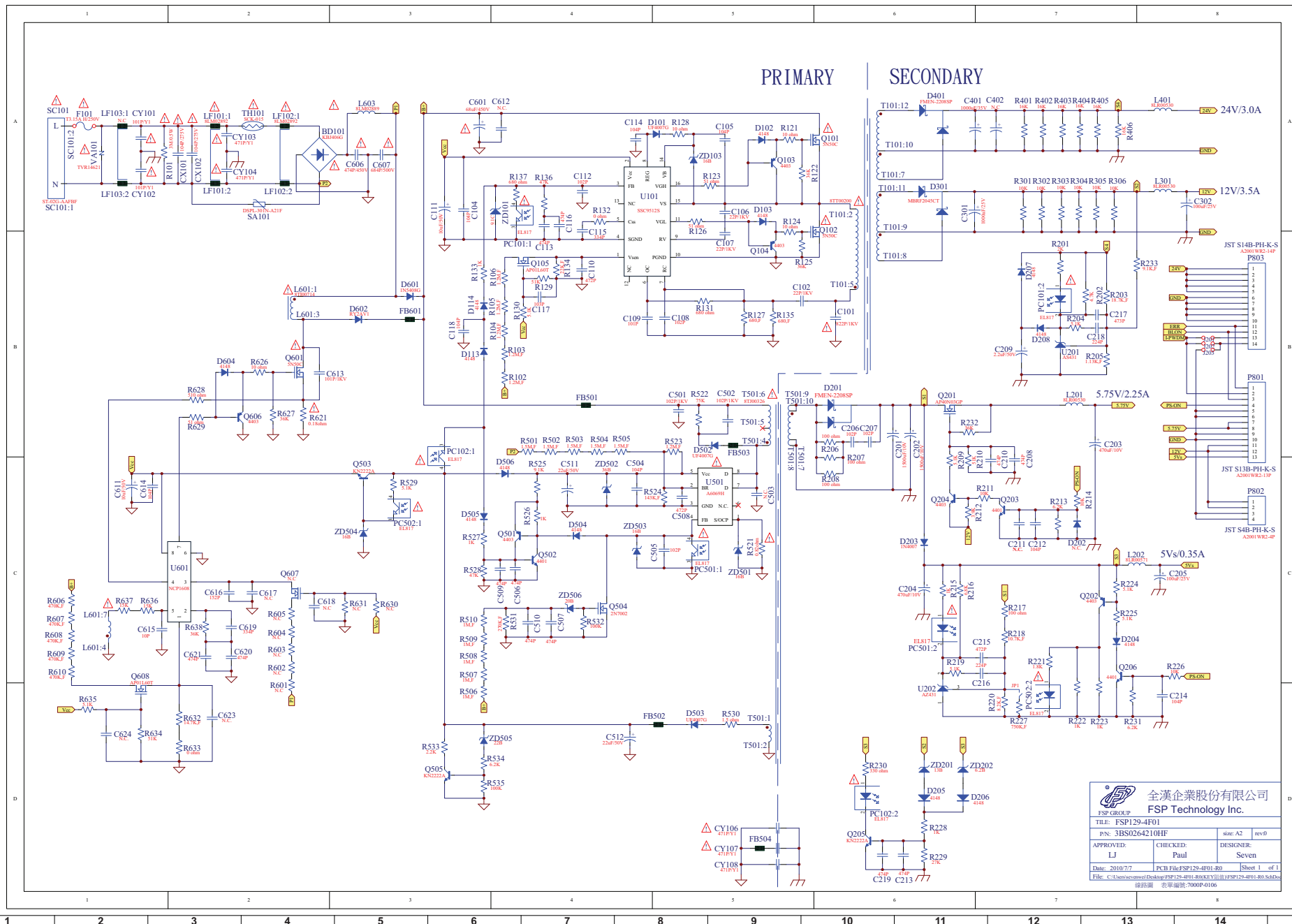
Power Supply Diagram LC32LE210/220E MODELS (AUO PANEL) RDENCA409WJQZ (1 / 2)



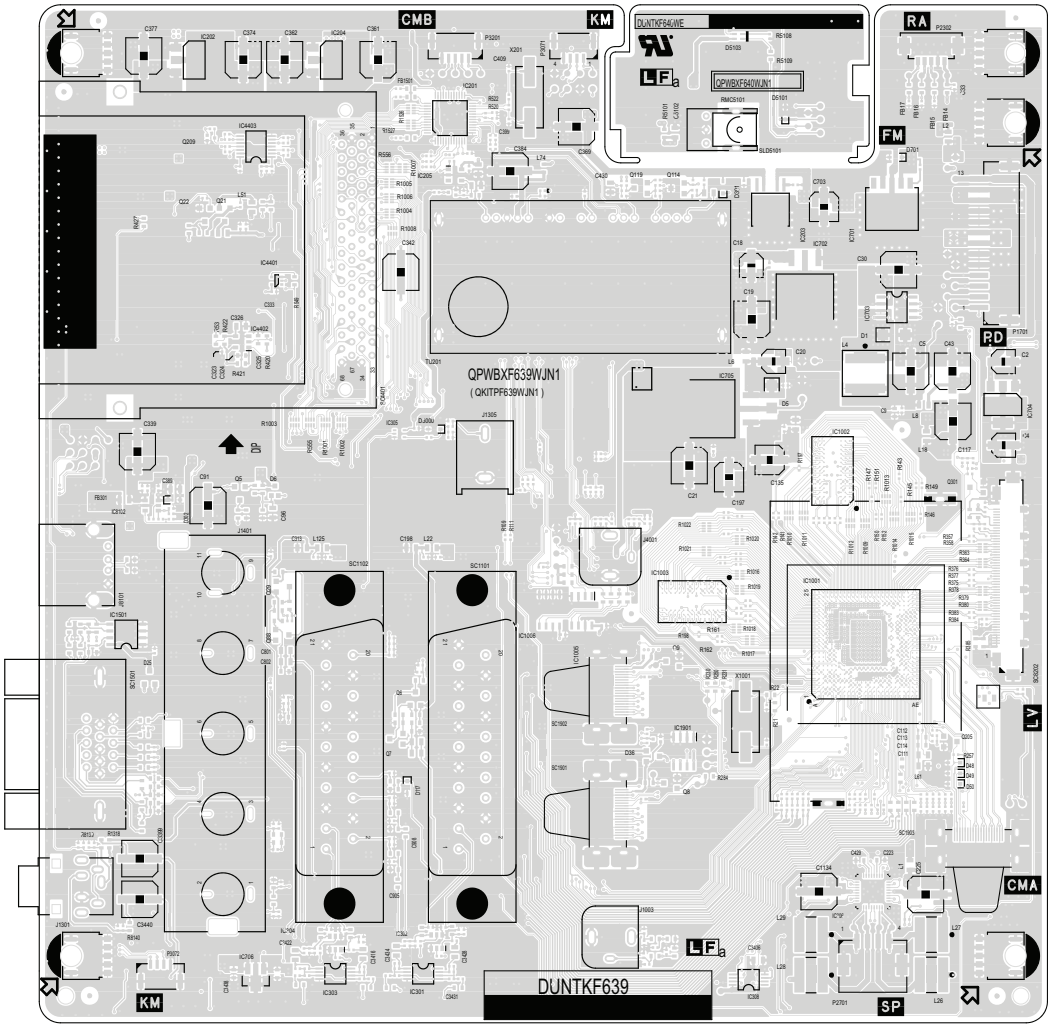
Power Supply Diagram LC32LE210/220E MODELS (AUO PANEL) RDENCA409WJQZ (2 / 2)



Power Supply Diagram LC32LE210/220EB MODELS (CMI PANEL) RDENCA411WJQZ (1 / 1)



Main Unit PWB (QPWBXF639WJN1)
LED Unit PWB (QPWBXF640WJN1)
Side A



H

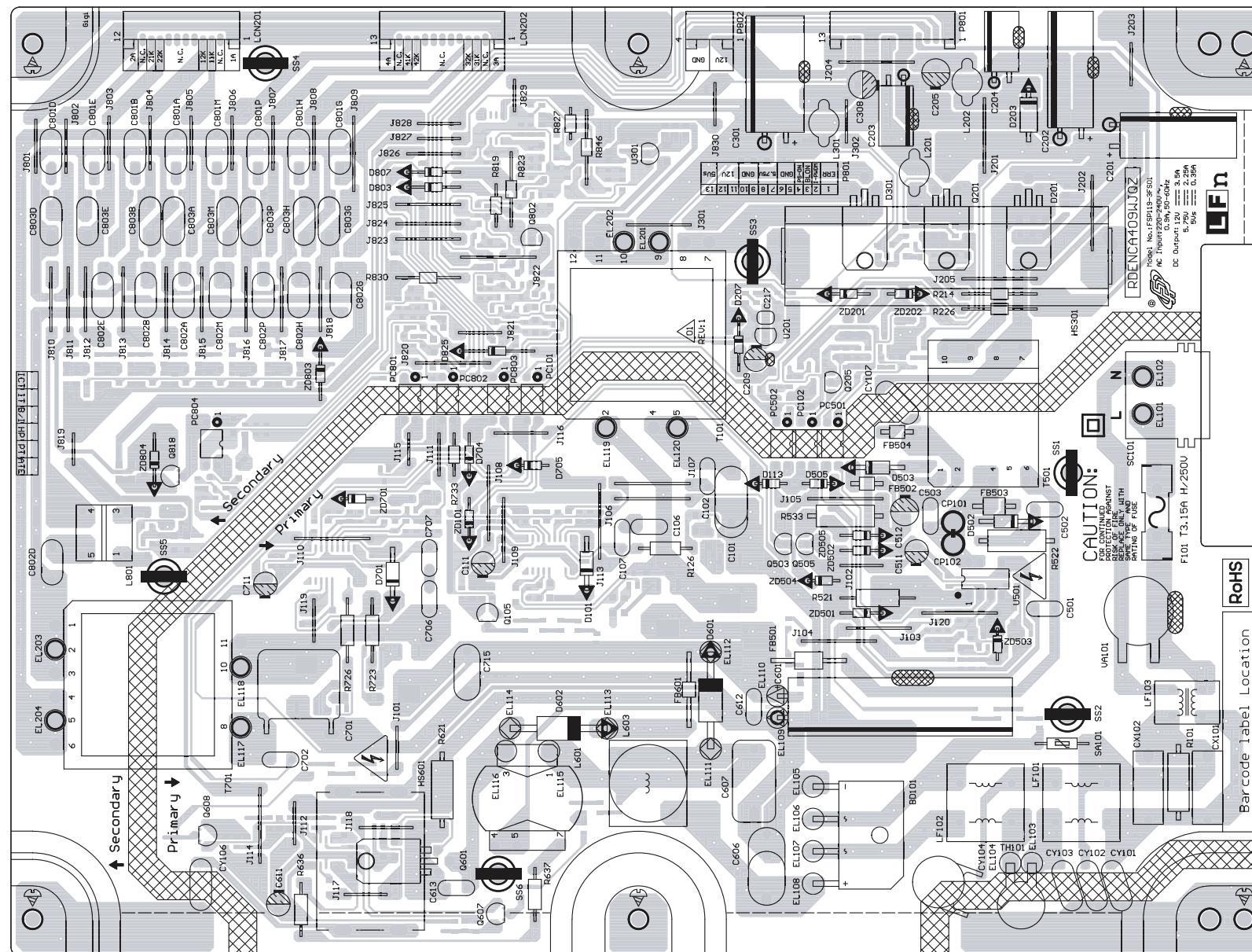


F

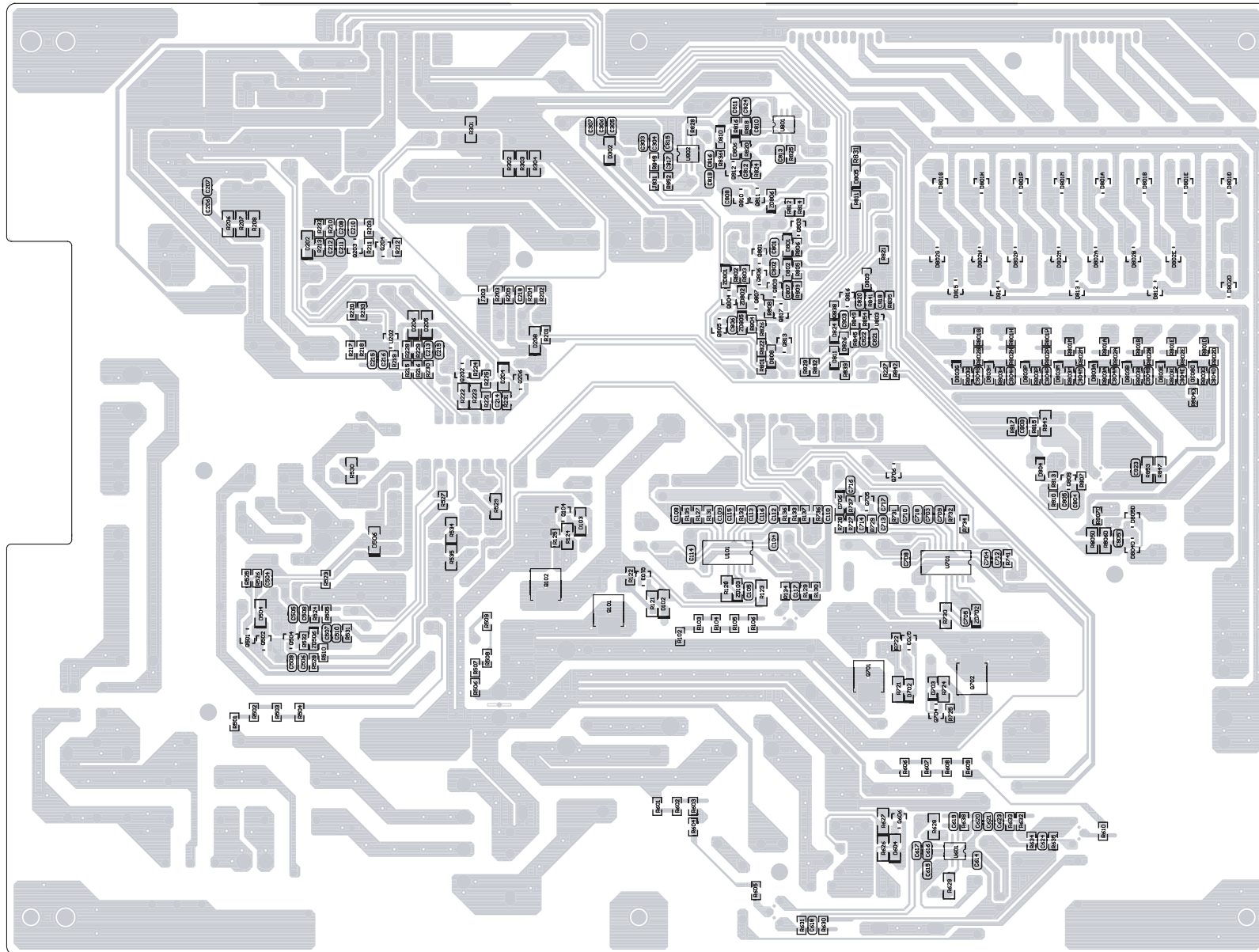


Power Unit PWB LC32LE210/220E MODELS (AUO PANEL) RDENCA409WJQZ

Power Unit, Side A

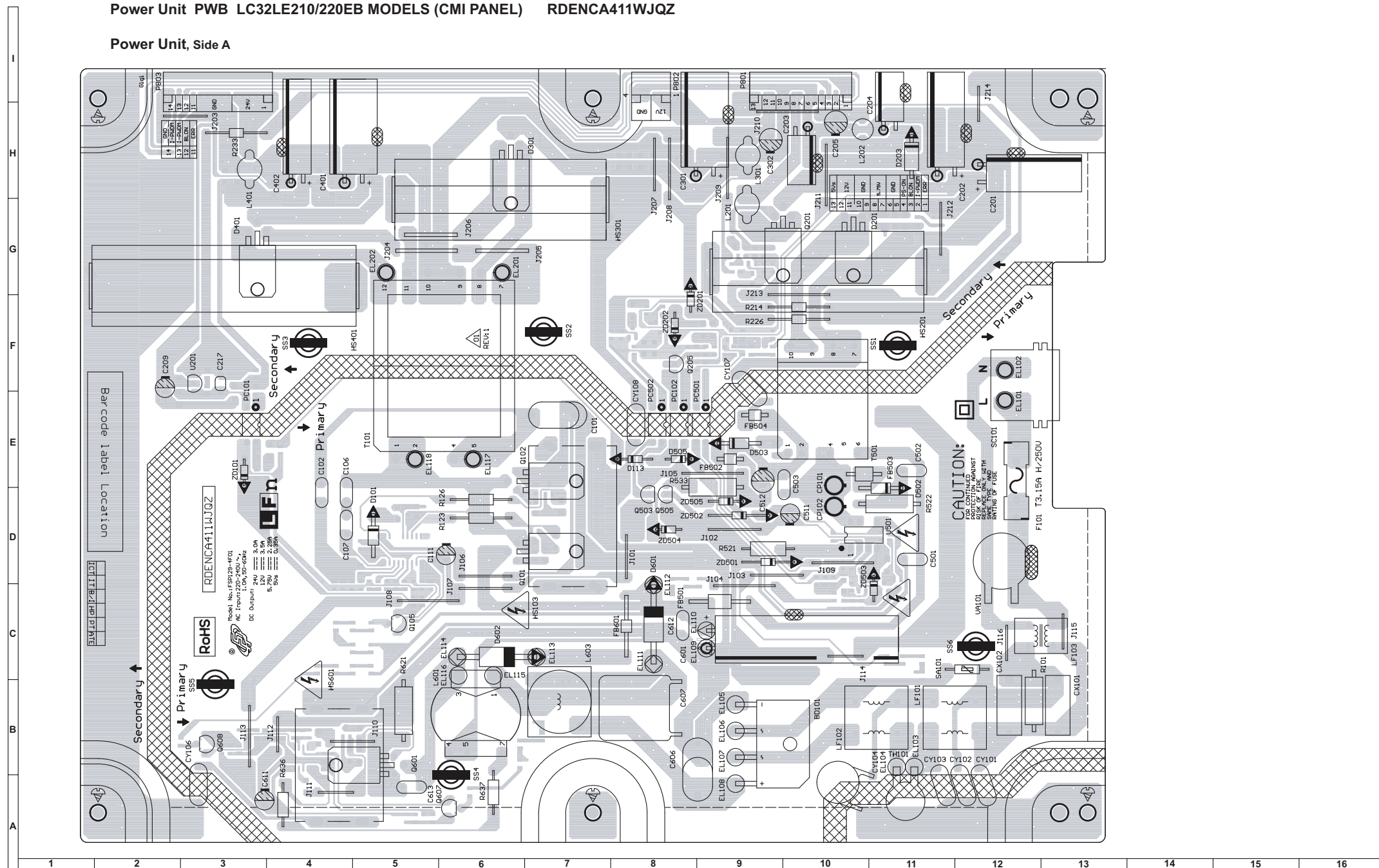


Power Unit PWB LC32LE210/220E MODELS (AUO PANEL) RDENCA409WJQZ

Power Unit, Side B

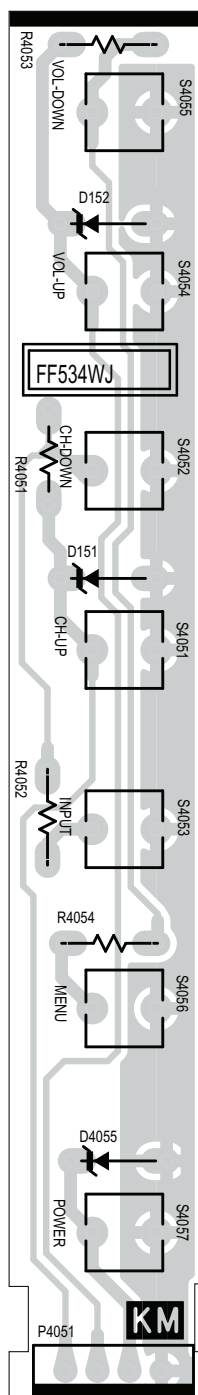
Power Unit PWB LC32LE210/220EB MODELS (CMI PANEL) RDENCA411WJQZ

Power Unit, Side A

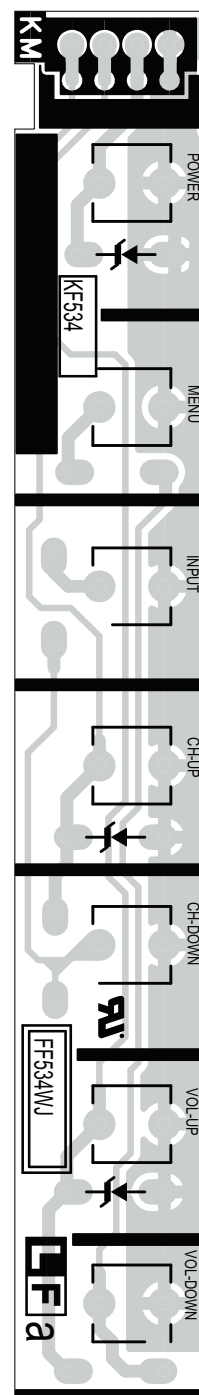


LC32LE210/220E LC32LE210/220EB KEY Unit PWB (QPWBFF534WJ)

KEY Unit, Side A



KEY Unit, Side B



LE210/220E PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual.
Electrical components having such features are identified by  in the Replacement Parts Listing.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.
1. MODEL NUMBER 2. REF. NO. 3. PART NO.
4. DESCRIPTION 5. CODE 6. QUANTITY

MARK *: SPARE PARTS		DELIVERY SECTION		
REF No.	PARTS	DESCRIPTION		* SN CODE EX CODE

LE210E/LE220E LCD PANEL				
NOTE : THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY				
	RILK31503LF31Y	PANEL 32" 50Hz FULL HD AUO	S	CN DL

LE210E/LE220E PRINTED WIRING BOARDS				
	DSETUF639WE01	MAIN/LED UNIT LC32LE210E	S	BE AT
	DSETUF639WE03	MAIN/LED UNIT LC32LE220E	S	BE AT
	DUNTKEF534FM02	ADJUST KEY LE210-220E	S	-- --
	RDENCA409WJQZ	POWER WITH LED driver 32" (FSP119-3F01)	S	BA BQ

LE210E/LE220E DUNTKEF639FM**				
MAIN Unit				

INTEGRATED CIRCUITS				
	IC 0201	RH-IXC868WJZZQ	IC COFDM M581220 LQFP 48 LE210E	S AF AQ
		RH-IXD148WJZZQ	IC COFDM M581222-LF LQFP 48 LE220E	S AG AS
	IC 0202	RH-IXC881WJZZY	IC APL1117-33VC-TRG	S AA AB
	IC 0203	VHIBA5080WP-1Y	IC BA5080WPFP-E2	S AA AD
	IC 0204	RH-IXD112WJZZY	CI APL1117-12VC-TRG SOT-223 ANPEC	S AA AB
	IC 0301	VHINJM4565V-1Y	IC NJM4565V-TE1	S AA AB
	IC 0302	VSIIMH23T110-1Y	TRT IMH23T110	S AA AB
	IC 0305	VHIN7S204P-1Y	IC NC7S204P5X	S AA AA
	IC 0306	RH-IXC867WJZZQ	IC MSH9000-LF AUDIO OUT MSTAR QFN40	S AD AM
	IC 0307	VSIIMH23T110-1Y	TRT IMH23T110	S AA AB
	IC 0308	VHINJM4565V-1Y	IC NJM4565V-TE1	S AA AB
	IC 0309	VHIBH3547F-1L	IC BH3547-E2	S AA AB
	IC 0701	RH-IXC913WJZZY	ICBA50DD0WHP HPR5 ROHM	S AB AF
	IC 0702	RH-IXC882WJZZY	IC APL1084-33GC-TRG	S AA AC
	IC 0703	VHILV5893M-1Y	IC LV5893M-TE-L-E	S AA AD
	IC 0704	RH-IXC881WJZZY	IC APL1117-33VC-TRG	S AA AB
	IC 0705	RH-IXC883WJZZY	IC AP1084K18-L13 TO-263AB	S AA AD
	IC 0706	VHINJ78L09U-1Y	IC NJM78L09UA-TE1	S AA AC
	IC 1001	RH-IXC869WJZZQ	IC MS033036X-LF-T1 VIDEO-AUDIO PROCESSOR	S AT BE
	IC 1002	RH-IXC505WJZZQ	IC MEMO 512MB / DDR2 RAM	S AE AN
	IC 1003	RH-IXC505WJZZQ	IC MEMO 512MB / DDR2 RAM	S AE AN
	IC 1006	RH-IXD261WJZZY	RH-IXC986WJZZY AND DATA LC32LE2x0E_HDCP_KEY	S AG AT
*	IC 1007	RH-IXD262WJZZY	RH-IXD012WJZZY AND LE210_v125_PANEL_AUO_BOARD_N1	S AQ AF
	IC 1501	RH-IXD239WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_PC_EDID	S AC AB
	IC 1901	RH-IXD236WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_1_EDID	S AC AB
	IC 1902	RH-IXD237WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_2_EDID	S AC AB
	IC 1903	RH-IXD238WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_3_EDID	S AC AB
	IC 4401	VHITC7SH17U-1Y	IC TC7SH17FU(Te85LF)	S AA AA
	IC 4402	VHIAHC1632V-1Y	IC 74AHC16326V.125	S AA AA
	IC 4403	RH-IXD045WJZZY	IC TC74L04CX126FT(EK2M) TOSHIBA	S AA AB
	IC 8102	RH-IXD187WJZZY	CI AAT4614IGU-2-T1 ANALOGIC TECH	S AA AC

TRANSISTORS				
	Q 0003	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
	Q 0004	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA AA
	Q 0005	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
	Q 0006	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
	Q 0007	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0008	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0009	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0013	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0014	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0016	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0017	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0018	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0021	VSRTRO20P02-1Y	TRT RTR020P02TL	S AA AC
	Q 0022	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0114	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
	Q 0119	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
	Q 0201	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA AA
	Q 0202	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA AA
	Q 0203	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA AA
	Q 0204	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA AA

* For Lx220 models it is not possible replace IC1007. Replace the full Main Unit.

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
Q 0205	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA	AA
Q 0208	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA	AA
Q 0209	VSRTIN441U/-1Y	TRT RTIN441U-T111-1	S AA	AA
Q 0701	VSRS5040P03-1Y	TRT RS5040P03TB	S AA	AC

DIODES				
	D 0001	VHDSMA833L-1Y	DIODE SMA833L-RTK/P	S AA AB
	D 0006	VHDDAN217U-1Y	DIODE DAN217T106	S AA AA
	D 0007	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0008	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0009	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0010	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0011	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0012	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0013	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0014	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0015	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0016	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0017	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0018	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0019	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0020	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0021	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0022	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0023	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0024	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA AA
	D 0025	VHDDR8425D//-1Y	DIODE RB425DT146	S AA AB
	D 0028	VHDDR8425D//-1Y	DIODE RB425DT146	S AA AB
	D 0029	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0034	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0035	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0036	VHDDR8425D//-1Y	DIODE RB425DT146	S AA AB
	D 0043	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0044	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0049	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0050	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA AA
	D 0052	VHDDR8425D//-1Y	DIODE RB425DT146	S AA AB
	D 0701	VHDSU1191/-1Y	DIODE HSU119TRF	S AA AB

PACKAGED CIRCUITS				
	X 0201	RCRCSA224WJZZY	CRYSTAL AT-41CD2-24.000MHz_20_N_NDK	S AA AC
	X 1001	RCRCSA225WJZZY	CRYSTAL AT-41CD2-12.000MHz_20_N_NDK	S AA AC

COILS AND FILTERS				
	L 0001	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0002	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0003	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0004	RCLP A762WJQZY	COIL NR8040T330M 33UH 20%	S AA AB
	L 0006	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0008	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0009	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0010	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0012	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0013	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0014	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0015	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0018	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0019	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0022	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0026	RCLP B016WJQZY	COIL SWPA6045S220	S AA AB
	L 0027	RCLP B016WJQZY	COIL SWPA6045S220	S AA AB
	L 0028	RCLP B016WJQZY	COIL SWPA6045S220	S AA AB
	L 0029	RCLP B016WJQZY	COIL SWPA6045S220	S AA AB
	L 0036	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0051	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0052	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0061	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0062	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0067	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0068	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0071	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S -- --
	L 0072	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0074	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0078	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0079	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S -- --
	L 0081	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S -- --
	L 0401	VR5-CZ1JF0003Y	RES 0402 0 OHM 5% 1/16W SMD	S AA AA

TUNER				
	TU 0201	RTUDA0065WJQZ	TUNER TD TW-S723D	S BA BR

CAPACITORS				
	C 0002	VCEAPF1CN106MY	ELEC C 10UF 20% 16V	S AA AA
	C 0003	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA AA
	C 0004	VCEAPF1CN106MY	ELEC C 10UF 20% 16V	S AA AA
	C 0005	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16V220MF80	S AA AB
	C 0007	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA AA
	C 0008	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA AA

REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
C 0009	VCKYCY0J8105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 0010	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0012	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0013	VCKYCY0J8105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 0014	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0015	VCKY CZ1CB223KY	CAPACITOR 22NF 16V 10%	S AA	AA
C 0016	VCKY CZ1CB682KY	CAPACITOR 6.8NF 16V 10%	S AA	AA
C 0017	VCKY CZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
C 0018	VCEAPFIQNI06MY	ELEC C 100UF 20% 16V	S AA	AA
C 0019	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
C 0020	VCEAPFIQNI06MY	ELEC C 100UF 20% 16V	S AA	AA
C 0021	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
C 0022	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0023	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0024	VCCCCZ1HH200JY	C CERAM 20PF 50V 5%	S AA	AA
C 0025	VCCCCZ1HH200JY	C CERAM 20PF 50V 5%	S AA	AA
C 0026	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0027	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0028	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0029	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0030	VCAAPEIAJ127MY	ELEC C 120UF 20% 10V LOW ESR	S AA	AC
C 0031	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0032	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0033	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0034	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0035	VCKY CZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
C 0036	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0037	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0038	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0039	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0040	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0043	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
C 0046	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0049	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0051	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0053	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0054	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0055	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0057	VCKY CZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
C 0059	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0062	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0065	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0066	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0067	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0068	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0070	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0071	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0073	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0074	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0076	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0077	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0078	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0079	VCKY CZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
C 0080	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0081	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0082	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0084	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0085	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0086	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0087	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0088	VCKY CZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
C 0089	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0090	VCKY CZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
C 0091	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
C 0092	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0093	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0094	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0095	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0096	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0097	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0098	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0099	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0100	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0101	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0102	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0103	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0104	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0105	VCKY CZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
C 0106	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0107	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0108	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0111	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0112	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0113	VCKYCY0J8105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 0114	VCKYCY1A8475KN	CAPACITOR GRM39B 475K 10 (1608)SMD	S AA	AA
C 0115	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA

REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
C 0116	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0117	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
C 0118	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0119	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0120	VCKY CZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
C 0121	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0124	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0125	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0126	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0127	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0128	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0131	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0136	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0139	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0140	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0142	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0144	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0145	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0146	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0147	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0149	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0150	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0151	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0154	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0155	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0156	VCKY CZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
C 0157	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0159	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0162	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0163	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0165	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0166	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0167	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0170	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0171	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0172	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0173	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0174	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0175	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0176	VCKY CZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
C 0177	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0180	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 0181	VCKY CZ1HB472KY	CAPACITOR 4.7NF 50V 10%	S AA	AA
C 0182	VCKY CZ1HB472KY	CAPACITOR 4.7NF 50V 10%	S AA	AA
C 0183	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0184	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0185	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0186	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0189	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0190	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0191	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 0195	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0196	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0197	VCAAPFQJ107MY	ELEC C 100UF 20% 6.3V 6SVIP00M	S AA	AC
C 0198	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0202	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0203	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0204	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0207	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0208	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0217	VCKYTV1EB224KY	CERAM C 220NF 25V 10%	S AA	AA
C 0218	VCKYTV1EB224KY	CERAM C 220NF 25V 10%	S AA	AA
C 0220	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0221	VCKYCY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 0223	VCKYCY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 0224	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B3105K4FT	S AA	AA
C 0225	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
C 0230	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
C 0232	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
C 0234	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
C 0248	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0253	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
C 0261	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0262	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0263	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0265	RC-KZA237WJZZY	CERAM C EMK212B3106K6FT 10UF 16V 10%	S AA	AA
C 0266	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0319	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0320	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0323	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0324	VCKYCY0J8105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 0325	VCKYCY0J8105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 0326	RC-KZA069WJZZY	CERAM C 4.7UF 10V GRM218B31A475KA74L	S AA	AA
C 0327	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0330	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0331	VCCCCZ1HH101JY	S. CHIP CAP 100PF 50V 5%	S AA	AA

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
C 0332	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0333	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0336	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0337	VCKY CZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
C 0338	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0339	VCAAPE1AJ127MY	ELEC C 120UF 20% 10V LOW ESR	S AA	AC
C 0341	VRS-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S AA	AA
C 0342	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0343	VCCCCZ1HH101JY	S. CHIP CAP 100PF 50V 5%	S AA	AA
C 0354	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 0355	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 0357	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0359	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0360	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0361	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0362	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0363	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0364	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0365	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0367	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0368	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0369	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0370	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 0371	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0372	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0374	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0375	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0376	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0377	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0383	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0384	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VCI00MF60E1	S AA	AB
C 0387	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0389	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 0390	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0391	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0392	VCKY CZ1CB223KY	CAPACITOR 22NF 16V 10%	S AA	AA
C 0393	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0394	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0395	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0399	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 0401	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0405	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0406	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0408	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0409	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 0410	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 0413	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0415	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0416	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0417	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0418	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0420	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 0422	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0424	VCCCCZ1HH271JY	C CERAM 270PF 50V 5%	S AA	AA
C 0426	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 0427	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0428	VCKY CZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
C 0429	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 0430	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 0431	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0432	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0436	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
C 0701	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
C 0702	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
C 0703	VCAAPE01J107MY	ELEC C 100UF 20% 6.3V 65VP100M	S AA	AC
C 0737	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0739	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0740	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0741	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 0761	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B J105KAFT	S AA	AA
C 0763	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B J105KAFT	S AA	AA
C 1114	VCKY TV1B224KY	CERAM C 220NF 25V 10%	S AA	AA
C 1133	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
C 1134	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
C 1135	VCKY TV1B224KY	CERAM C 220NF 25V 10%	S AA	AA
C 1327	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA
C 1328	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 1329	VCCCCZ1HH101JY	S. CHIP CAP 100PF 50V 5%	S AA	AA
C 2301	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 2302	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
C 2303	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 2861	VCKY CZ1HB222KY	CAPACITOR 2.2NF 50V 10%	S AA	AA
C 3397	VCKY CY0JB105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 3398	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3399	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
C 3401	RC-KZA115WJZZY	CERAM C 2.2UF 10V GRM188B31A225KE33D	S AA	AA

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
C 3402	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 3403	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
C 3404	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 3405	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 3406	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3407	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 3408	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 3409	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3410	VCKY CY0JB105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
C 3411	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3412	VCKY CZ1HB222KY	CAPACITOR 2.2NF 50V 10%	S AA	AA
C 3426	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3428	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3429	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 3430	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 3431	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B J105KAFT	S AA	AA
C 3432	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3434	RC-KZA237WJZZY	CERAM C EMK212B J106KGFT 10UF 16V 10%	S AA	AA
C 3435	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
C 3436	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
C 3437	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B J105KAFT	S AA	AA
C 3438	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
C 3439	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
C 3440	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
DM 0001	VCKY TV1CF225ZY	C CERAM 2.2UF 16V 2125SMD - ONLY FOR LC32LE220E	S --	--
RESISTORS				
R 0004	VRS-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S AA	AA
R 0007	VRS-CY1JF122FY	RES 0603 1.2KOHM 1% 1/10W SMD	S AA	AA
R 0008	VRS-CY1JF202FY	RES 0603 2KOHM 1% 1/10W SMD	S AA	AA
R 0009	VRS-CZ1JF473JY	RES 0402 47KOHM 5% 1/16W SMD	S AA	AA
R 0010	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
R 0011	VRS-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S AA	AA
R 0012	VRS-CY1JF222JY	RES 0603 2.2KOHM 5% 1/10W SMD	S AA	AA
R 0013	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0014	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0015	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0021	VRS-CY1JF105JY	RES 0603 1MOHM 5% 1/10W SMD	S AA	AA
R 0022	VRS-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
R 0023	VRS-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
R 0024	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0025	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
R 0026	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0027	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
R 0031	VRS-CY1JF391FY	RES 0603 390 OHM 1% 1/10W SMD	S AA	AA
R 0033	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0034	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0035	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0036	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0037	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0038	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0039	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0040	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0041	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0042	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0043	VRS-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
R 0044	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0045	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0046	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0047	VRS-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
R 0049	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0050	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0053	VRS-CY1JF330JY	RES 0603 33 OHM 5% 1/10W SMD	S AA	AA
R 0055	VRS-CY1JF102FY	CHIP RESISTOR 1% 1K	S AA	AA
R 0056	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0057	VRS-CY1JF102FY	CHIP RESISTOR 1% 1K	S AA	AA
R 0058	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
R 0060	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0061	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
R 0063	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0066	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0068	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
R 0073	VRS-CY1JF102JY	RES 0603 1KOHM 5% 1/10W SMD	S AA	AA
R 0076	VRS-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
R 0079	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
R 0080	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0082	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0084	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0086	VRS-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
R 0088	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0092	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0101	VRS-CY1JF333JY	RES 0603 33KOHM 5% 1/10W SMD	S AA	AA
R 0102	VRS-CY1JF333JY	RES 0603 33KOHM 5% 1/10W SMD	S AA	AA
R 0103	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0104	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0105	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
R 0421	VR5-CY1JF472JY	RES 0603 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0422	VR5-CY1JF472JY	RES 0603 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0423	VR5-CY1JF220JY	RES 0603 22 OHM 5% 1/10W SMD	S AA	AA
R 0424	VR5-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
R 0425	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S AA	AA
R 0426	VR5-CY1JF473JY	RES 0603 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0427	VR5-CY1JF472JY	RES 0603 4.7KOHM 5% 1/10W SMD	S AA	AA
R 0447	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0448	VR5-CZ1JF152JY	RES 0402 1.5KOHM 5% 1/16W SMD	S AA	AA
R 0450	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0452	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0453	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0455	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0482	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S AA	AA
R 0484	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S AA	AA
R 0485	VR5-CZ1JF472JY	RES 0402 4.7KOHM 5% 1/16W SMD	S AA	AA
R 0486	VR5-CZ1JF472JY	RES 0402 4.7KOHM 5% 1/16W SMD	S AA	AA
R 0498	VR5-CZ1JF472JY	RES 0402 4.7KOHM 5% 1/16W SMD	S AA	AA
R 0500	VR5-CZ1JF472JY	RES 0402 4.7KOHM 5% 1/16W SMD	S AA	AA
R 0501	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0502	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0503	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0504	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0505	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0509	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0510	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0511	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 0512	VR5-CZ1JF100JY	RES 0402 10 OHM 5% 1/16W SMD	S AA	AA
R 0513	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0522	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
R 0530	VR5-CZ1JF620JY	RES 0402 62 OHM 5% 1/16W SMD	S AA	AA
R 0534	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0535	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S AA	AA
R 0536	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S AA	AA
R 0537	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
R 0538	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
R 0540	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0542	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
R 0543	VR5-CZ1JF331JY	RES 0402 330 OHM 5% 1/16W SMD	S AA	AA
R 0544	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0545	VR5-CZ1JF331JY	RES 0402 330 OHM 5% 1/16W SMD	S AA	AA
R 0546	VR5-CZ1JF392JY	RES 0402 3.9KOHM 5% 1/16W SMD	S AA	AA
R 0547	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S AA	AA
R 0549	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S AA	AA
R 0550	VR5-CZ1JF472JY	RES 0402 4.7KOHM 5% 1/16W SMD	S AA	AA
R 0551	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0554	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
R 0555	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 0556	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 0560	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0658	VR5-CZ1JF822JY	RES 0402 8.2KOHM 5% 1/16W SMD	S AA	AA
R 0702	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 0703	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1001	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1002	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1003	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1004	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1005	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1006	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1007	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1008	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S AA	AA
R 1009	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1010	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1011	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1012	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1013	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1014	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1015	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1016	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1017	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1018	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1019	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1020	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1021	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1022	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S AA	AA
R 1109	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1121	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1123	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1174	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1228	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 1318	VR5-CY1JF472JY	RES 0603 4.7KOHM 5% 1/10W SMD	S AA	AA
R 1514	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S AA	AA
R 1517	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
R 1525	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S AA	AA
R 1526	VRK-SB1FF220JY	RES 22 OHM 5% 1/32W SMD	S AA	AA
R 1527	VRK-SB1FF220JY	RES 22 OHM 5% 1/32W SMD	S AA	AA

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
R 2081	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S AA	AA
R 2082	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S AA	AA
R 2314	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 2315	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8133	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
R 8136	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S AA	AA
R 8137	VR5-CZ1JF822JY	RES 0402 8.2KOHM 5% 1/16W SMD	S AA	AA
R 8138	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S AA	AA
R 8139	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S AA	AA
R 8140	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S AA	AA
R 8141	VR5-CY1JF273JY	S, CHIP RES, 27-OHM TAPED	S AA	AA
R 8142	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S AA	AA
R 8143	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 8144	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
R 8145	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S AA	AA
R 8146	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8147	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S AA	AA
R 8148	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8149	VR5-CZ1JF473JY	RES 0402 47KOHM 5% 1/16W SMD	S AA	AA
R 8150	VR5-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S AA	AA
R 8159	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8164	VR5-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S AA	AA
R 8166	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S AA	AA
R 8167	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
R 8168	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S AA	AA
R 8169	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8170	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8171	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8173	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S AA	AA
R 8174	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
R 8175	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S AA	AA
R 8176	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
R 8178	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S AA	AA
R 8179	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S AA	AA
R 8180	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
R 8181	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
R 8184	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S AA	AA
DM 0002	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD - ONLY FOR LC32LE220E	S AA	AA
MISCELLANEOUS PARTS				
FB 0014	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
FB 0015	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S AA	AA
FB 0016	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S AA	AA
FB 0017	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S AA	AA
FB 0018	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
FB 0019	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
FB 0020	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
FB 0201	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0202	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0203	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0204	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0205	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0206	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0207	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0208	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 0301	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
FB 1501	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 1502	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
FB 1503	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
J 1003	QJAKJ A024WJZZ	HEADPHONE JACK CXK-035-347DBZ	S AA	AB
J 1301	QJAKJ0047CEZZ	EARPHONE JACK HST0998-72	S AA	AG
J 1305	QJAKEA086WJ00	JACK RCA-101H(BK)	S AA	AB
J 1401	QJAKKA007WJZZ	JACK RCA--512HAT-00A-03	S AB	AE
J 4001	QJAKJ A024WJZZ	HEADPHONE CXK-035-347DBZ	S AA	AB
J 8101	QSOZCA205WJQZ	SOCKET UAR27-4K5COL	S AA	AB
LU61701	QLUGHA006WJZZY	METALLIC LUG SD01138-21	S AA	AA
LU61702	QLUGHA006WJZZY	METALLIC LUG SD01138-21	S AA	AA
LU61703	QLUGHA006WJZZY	METALLIC LUG SD01138-21	S AA	AA
LU61704	QLUGHA006WJZZY	METALLIC LUG SD01138-21	S AA	AA
P 1701	QPL6N0185FJZZY	CONNECTOR S138-PH-SM4-TB	S AA	AC
P 2302	QPL6NA916WJZZY	CONNECTOR A1251WRO-5PS-5E JWT	S AA	AB
P 2701	QPL6NA160WJZZY	CONNECTOR SM04B-PASS-TBT(LF)	S AA	AB
P 3072	QPL6NA324WJZZY	CONNECTOR SM04B-GHS-(FLY)SN	S AA	AB
SC 1101	QSOZCA161WJZZ	SCART R6B-11H	S AA	AD
SC 1501	QSOZCA229WJZZ	SOCKET DHR20-151F200/H-DBR10-A0020D	S AB	AE
SC 1901	QSOZCA175WJZZY	CONECTOR HDMI A111924-A-15-R	S AB	AE
SC 1902	QSOZCA175WJZZY	CONECTOR HDMI A111924-A-15-R	S AB	AE
SC 1903	QSOZCA175WJZZY	CONECTOR HDMI A111924-A-15-R	S AB	AE
SC 4401	QNCNMA332WJSA	C.I.CARD SLOT	S AD	AK
SC 8202	QNCNCA899WJQZY	CONNECTOR FI-REB15-HF-J-R1500	S AB	AF
	PRDARA577WJFW	BL CHASSTS	S AA	AD
	TLABN0134BMMZ	CHASSTS LABEL 35X10MM	S AA	AA
	PSPAZC213WJJKZ	HEAT CONDUCTOR SPACER	S AA	AD

REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
LE210E/LE220E DUNTKF640FM**				
LED Unit				
DIODES				
D 5103	RH-PXA195WJQZY	LED DIODE SMD BLUE/RED SML522BUWT86 ROHM	S AA	AC
CAPACITORS				
C 5102	RC-KZA237WJZZY	CERAM C EMK2128J106KGFT 10UF 16V 10%	S AA	AA
RESISTORS				
R 5101	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
R 5108	VR5-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S AA	AA
R 5109	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
MISCELLANEOUS PARTS				
P 5101	QPL6NA916WJZZY	CONNECTOR A1251WRO-5PS-5E JWT	S AA	AB
RMC5101	RRMCUA053WJZZ	R/C RECEIVER UNIT	S AA	AD
SLD5101	PSLDPA076WJFW	SHIELD CASE	S AA	AA
DUNTKF534WE02				
KEY Unit				
RESISTORS				
R 4051	VRD-RA28E822JY	RES 8.2KOHM 5% 1/8W	S AA	AA
R 4052	VRD-RA28E123JY	RES 12K OHM 5% 1/8W	S AA	AA
R 4053	VRD-RA28E822JY	RES 8.2KOHM 5% 1/8W	S AA	AA
R 4054	VRD-RA28E123JY	RES 12K OHM 5% 1/8W	S AA	AA
MISCELLANEOUS PARTS				
P 4051	QNCWA012JDE0	CONNECTOR 54B-EH	S AA	AA
S 4051	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4052	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4053	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4054	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4055	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4056	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
S 4057	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S AA	AA
LE210E/LE220E RDENCA409WJQZ				
POWER Unit				
	RDENCA409WJQZ	POWER WITH LED driver 32" (FSP119-3F01)	S BA	BQ

LE210/220EB PARTS LISTING

REPLACEMENT PARTS

Replacement parts which have special safety characteristics are identified in this manual.
Electrical components having such features are identified by  in the Replacement Parts Listing.

The use of a substitute replacement part which does not have the same safety characteristics as the factory recommended is not permitted.
Replacement parts not shown in this service manual may create shock fire, or other hazards.

HOW TO ORDER REPLACEMENT PARTS

To have your order completed promptly and correctly please supply the following information.
1. MODEL NUMBER 2. REF. NO. 3. PART NO.
4. DESCRIPTION 5. CODE 6. QUANTITY

MARK *: SPARE PARTS		DELIVERY SECTION	
REF No.	PARTS	DESCRIPTION	* SN CODE EX CODE

LE210E/LE220EB LCD PANEL			
NOTE : THE PARTS HERE SHOWN ARE SUPPLIED AS AN ASSEMBLY BUT NOT INDEPENDENTLY			
	RILK315D3LF22Y	PANEL 32" FHD CM1ED V31H3-L3	S CH DE

LE210E/LE220EB PRINTED WIRING BOARDS			
	DSETUF639WE04	MAIN/LED UNIT LC32LE210EB	S BD AS
	DSETUF639WE05	MAIN/LED UNIT LC32LE220EB	S BE AT
	DUNTKF534FW02	ADJUST KEY LE210-220E	S -- --
	RDENCA411WJQZ	POWER WITHOUT LED DRIVER 32" FSP129-4F01	S AY BN

LE210E/LE220EB DUNTKE639FMR**			
MAIN Unit			

INTEGRATED CIRCUITS			
IC 0201	RH-IXC868WJZZQ	IC COFDM MSB1220 LQFP 48 LE210EB	S AF AQ
	RH-IXD148WJZZQ	IC COFDM MSB1222-LF LQFP 48 LE220EB	S AG AS
IC 0202	RH-IXC881WJZZY	IC APL1117-33VC-TRG	S AA AB
IC 0203	VHIBA5080WP-1Y	IC BA5080COWP-E2	S AA AD
IC 0204	RH-IXD112WJZZY	CI APL1117-12VC-TRG SOT-223 ANPEC	S AA AB
IC 0301	VHINJM4565V-1Y	IC NJM4565V-TE1	S AA AB
IC 0302	VSIMH23T110-1Y	TRT IMH23T110	S AA AB
IC 0305	VHINC7S204P-1Y	IC NC7S204P5X	S AA AA
IC 0306	RH-IXC867WJQZQ	IC MS19000-LF AUDIO OUT MSTAR QFN40	S AD AM
IC 0307	VSIMH23T110-1Y	TRT IMH23T110	S AA AB
IC 0308	VHINJM4565V-1Y	IC NJM4565V-TE1	S AA AB
IC 0309	VHIBH3547F-1L	IC BH3547-E2	S AA AB
IC 0701	RH-IXC913WJZZY	ICBA50DDOWHFP HPR5 ROHM	S AB AF
IC 0702	RH-IXC882WJZZY	IC APL1084-33GC-TRG	S AA AC
IC 0703	VHILV5893M-1Y	IC LV5893M-TE-L-E	S AA AD
IC 0704	RH-IXC881WJZZY	IC APL1117-33VC-TRG	S AA AB
IC 0705	RH-IXC883WJZZY	IC AP1084K18-L13 TO-263AB	S AA AD
IC 0706	VHINJ78L09U-1Y	IC NJM78L09UA-TE1	S AA AC
IC 1001	RH-IXC869WJQZQ	IC MS033036X-LF-T1 VIDEO-AUDIO PROCESSOR	S AT BE
IC 1002	RH-IXC505WJQZQ	IC MEMO 512MB / DDR2 RAM	S AE AN
IC 1003	RH-IXC505WJQZQ	IC MEMO 512MB / DDR2 RAM	S AE AN
IC 1006	RH-IXD261WJZZY	RH-IXC986WJZZY AND DATA LC32LE2x0E_HDCP_KEY	S AG AT
* IC 1007	RH-IXD263WJZZY	RH-IXD012WJZZY and LE210B_v1.25_PANEL_CMI_BOARD_N1	S AQ AF
IC 1501	RH-IXD239WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_PC_EDID	S AC AB
IC 1901	RH-IXD236WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_1_EDID	S AC AB
IC 1902	RH-IXD237WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_2_EDID	S AC AB
IC 1903	RH-IXD238WJZZY	RH-IXD080WJZZY AND DATA LC32LE2x0E_HDMI_3_EDID	S AC AB
IC 4401	VHITC7SH17U-1Y	IC TC7SH17FU(TE8BLF)	S AA AA
IC 4402	VHIAHC1632V-1Y	IC 74AHC1632GV.125	S AA AA
IC 4403	RH-IXD045WJZZY	IC TC74LCX126FT(EK2.M) TOSHIBA	S AA AB
IC 8102	RH-IXD187WJZZY	CI AAT461416U-2-T1 ANALOGIC TECH	S AA AC

TRANSISTORS			
Q 0003	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
Q 0004	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA AA
Q 0005	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
Q 0006	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
Q 0007	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0008	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0009	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0013	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0014	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0016	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0017	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0018	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0021	VSRT020P02-1Y	TRT RT020P02TL	S AA AC
Q 0022	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0114	VS2SA1530AR-1Y	TRT SA1530A-T12-1R MITSUBISHI	S AA AA
Q 0119	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA AA
Q 0201	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA AA
Q 0202	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA AA
Q 0203	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA AA
Q 0204	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA AA

* For Lx220 models it is not possible replace IC1007. Replace the full Main Unit.

REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
Q 0205	VS2SC3928AR-1Y	TRT 25C3928AR-T12-1R MITSUBISHI	S AA	AA
Q 0208	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA	AA
Q 0209	VSRTN441U/-1Y	TRT RTN441U-T111-1	S AA	AA
Q 0701	VSRS5040P03-1Y	TRT RS5040P03TB	S AA	AC

DIODES				
D 0001	VHDSMA833L-1Y	DIODE SMA833L-RTK/P	S AA	AB
D 0006	VHDDAN217U/-1Y	DIODE DAN217T106	S AA	AA
D 0007	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0008	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0009	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0010	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0011	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0012	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0013	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0014	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0015	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0016	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0017	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0018	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0019	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0020	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0021	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0022	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0023	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0024	RH-EXA675WJZZY	ZENER DIODE CD52C166TH ESD 16V 0402	S AA	AA
D 0025	VHDBR425D/-1Y	DIODE RB425DT146	S AA	AB
D 0028	VHDBR425D/-1Y	DIODE RB425DT146	S AA	AB
D 0029	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0034	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0035	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0036	VHDBR425D/-1Y	DIODE RB425DT146	S AA	AB
D 0043	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0044	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0049	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0050	RH-EXA633WJQZY	ZENER DIODE RKZ5.6B2KG	S AA	AA
D 0052	VHDBR425D/-1Y	DIODE RB425DT146	S AA	AB
D 0701	VHDSU119/-1Y	DIODE HSU119TRF	S AA	AB

PACKAGED CIRCUITS				
X 0201	RCRSCA224WJZZY	CRYSTAL AT-41CD2-24.000MHz_20_N_NDK	S AA	AC
X 1001	RCRSCA225WJZZY	CRYSTAL AT-41CD2-12.000MHz_20_N_NDK	S AA	AC

COILS AND FILTERS				
L 0001	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0002	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0003	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0004	RCLP7A762WJQZY	COIL NR8040T330M 33UH 20%	S AA	AB
L 0006	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0008	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0009	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0010	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0012	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0013	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0014	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0015	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0018	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0019	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0022	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0026	RCLP8016WJQZY	COIL SWPA6045S220	S AA	AB
L 0027	RCLP8016WJQZY	COIL SWPA6045S220	S AA	AB
L 0028	RCLP8016WJQZY	COIL SWPA6045S220	S AA	AB
L 0029	RCLP8016WJQZY	COIL SWPA6045S220	S AA	AB
L 0036	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0051	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0052	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0061	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0062	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0067	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0068	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0071	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
L 0072	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0074	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0078	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0079	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S --	--
L 0081	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S --	--
L 0401	VRS-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA

TUNER				
TU 0201	RTUDA4065WJQZ	TUNER TD7W-5723D	S BA	BR

CAPACITORS				
C 0002	VCEAPF1C106MY	ELEC C 10UF 20% 16V	S AA	AA
C 0003	VCKYCZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0004	VCEAPF1C106MY	ELEC C 10UF 20% 16V	S AA	AA
C 0005	VCEAS1C1027MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
C 0007	VCKYCZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
C 0008	VCKYCZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA

	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
	C 0009	VCKYCY0J8105KY	CAPACITOR 6RM398 105K 6.3 (1608)SMD	S AA	AA
	C 0010	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0012	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0013	VCKYCY0J8105KY	CAPACITOR 6RM398 105K 6.3 (1608)SMD	S AA	AA
	C 0014	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0015	VCKYZZ1CB223KY	CAPACITOR 22NF 16V 10%	S AA	AA
	C 0016	VCKYZZ1CB682KY	CAPACITOR 6.8NF 16V 10%	S AA	AA
	C 0017	VCKYZZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
	C 0018	VCEAPFI0N106MY	ELEC C 100UF 20% 16V	S AA	AA
	C 0019	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
	C 0020	VCEAPFI0N106MY	ELEC C 100UF 20% 16V	S AA	AA
	C 0021	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
	C 0022	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0023	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0024	VCCCCZ1HH200JY	C CERAM 20PF 50V 5%	S AA	AA
	C 0025	VCCCCZ1HH200JY	C CERAM 20PF 50V 5%	S AA	AA
	C 0026	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0027	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0028	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0029	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0030	VCAAPE1A1217MY	ELEC C 120UF 20% 10V LOW ESR	S AA	AC
	C 0031	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0032	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0033	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0034	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0035	VCKYZZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
	C 0036	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0037	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0038	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0039	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0040	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0043	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
	C 0046	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0049	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0051	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0053	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0054	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0055	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0057	VCKYZZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
	C 0059	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0062	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0065	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0066	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0067	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0068	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0070	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0071	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0073	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0074	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0076	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0077	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0078	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0079	VCKYZZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
	C 0080	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0081	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0082	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0084	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0085	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0086	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0087	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0088	VCKYZZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
	C 0089	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0090	VCKYZZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
	C 0091	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
	C 0092	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0093	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0094	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0095	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0096	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0097	VCKYZZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0098	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0099	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0100	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0101	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0102	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0103	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0104	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0105	VCKYZZ1CB153KY	CAPACITOR 15NF 16V 10%	S AA	AA
	C 0106	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0107	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0108	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0111	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0112	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0113	VCKYCY0J8105KY	CAPACITOR 6RM398 105K 6.3 (1608)SMD	S AA	AA
	C 0114	VCKYCY1A8475KN	CAPACITOR 6RM398 475K 10 (1608)SMD	S AA	AA
	C 0115	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA

	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
	C 0116	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0117	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6.3VC100MF60E1	S AA	AB
	C 0118	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0119	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0120	VCKYZZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
	C 0121	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0124	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0125	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0126	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0127	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0128	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0131	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0136	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0139	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0140	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0142	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0144	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0145	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0146	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0147	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0149	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0150	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0151	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0154	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0155	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0156	VCKYZZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
	C 0157	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0159	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0162	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0163	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0165	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0166	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0167	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0170	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0171	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0172	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0173	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0174	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0175	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0176	VCKYZZ1HB102KY	CAPACITOR 1NF 50V 10%	S AA	AA
	C 0177	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0180	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 0181	VCKYZZ1HB472KY	CAPACITOR 4.7NF 50V 10%	S AA	AA
	C 0182	VCKYZZ1HB472KY	CAPACITOR 4.7NF 50V 10%	S AA	AA
	C 0183	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0184	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0185	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0186	RC-KZA115WJZZY	CERAM C 2.2UF 10V 6RM188B31A225KE33D	S AA	AA
	C 0189	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0190	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0191	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 0195	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0196	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0197	VCAPE0J107MY	ELEC C 100UF 20% 6.3V 65VPI00M	S AA	AC
	C 0198	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0202	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0203	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0204	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0207	VCKYZZ1CF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0208	VCKYZZ1CF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0217	VCKYTVIEB224KY	CERAM C 220NF 25V 10%	S AA	AA
	C 0218	VCKYTVIEB224KY	CERAM C 220NF 25V 10%	S AA	AA
	C 0220	VCKYZZ1CF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0221	VCKYCY1CB224KY	CAPACITOR 6RM398 224K 16 (1608)SMD	S AA	AA
	C 0223	VCKYCY1CB224KY	CAPACITOR 6RM398 224K 16 (1608)SMD	S AA	AA
	C 0224	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B105KAF	S AA	AA
	C 0225	VCEASK1Q227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
	C 0230	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
	C 0232	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
	C 0234	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AB
	C 0248	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0253	VCCCCZ1HH331JY	C CERAM 330PF 50V 5%	S AA	AA
	C 0261	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0262	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0263	VCKYZZ1CF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0265	RC-KZA237WJZZY	CERAM C EMK212B106KGFT 10UF 16V 10%	S AA	AA
	C 0266	VCKYZZ1CF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0319	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0320	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0323	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0324	VCKYCY0J8105KY	CAPACITOR 6RM398 105K 6.3 (1608)SMD	S AA	AA
	C 0325	VCKYCY0J8105KY	CAPACITOR 6RM398 105K 6.3 (1608)SMD	S AA	AA
	C 0326	RC-KZA069WJZZY	CERAM C 4.7UF 10V 6RM218B31A475KA74L	S AA	AA
	C 0327	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0330	VCKYZZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0331	VCCCCZ1HH101JY	S CHIP CAP 100PF 50V 5%	S AA	AA

	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
	C 0332	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0333	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0336	VCCCCZ1HH420JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0337	VCKY CZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
	C 0338	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0339	VCAAPE1AJ127MY	ELEC C 120UF 20% 10V LOW ESR	S AA	AC
	C 0341	VRS-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S AA	AA
	C 0342	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0343	VCCCCZ1HH101JY	S. CHIP CAP 100PF 50V 5%	S AA	AA
	C 0354	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 0355	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 0357	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0359	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0360	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0361	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0362	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0363	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0364	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0365	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0367	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0368	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0369	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0370	RC-KZA115WJZZY	CERAM C 2,2UF 10V GRM188B31A225KE33D	S AA	AA
	C 0371	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0372	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0374	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0375	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0376	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0377	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0383	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0384	VCEASX0JN107MY	ELEC C 100UF 6.3V MVL6,3VC100MF60E1	S AA	AB
	C 0387	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0389	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 0390	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0391	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0392	VCKY CZ1CB223KY	CAPACITOR 22NF 16V 10%	S AA	AA
	C 0393	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0394	VCCCCZ1HH420JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0395	VCCCCZ1HH420JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0399	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 0401	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0405	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0406	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0408	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0409	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 0410	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 0413	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0415	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0416	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0417	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0418	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0420	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 0422	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0424	VCCCCZ1HH271JY	C CERAM 270PF 50V 5%	S AA	AA
	C 0426	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
	C 0427	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0428	VCKY CZ1CB103KY	CAPACITOR 10NF 16V 10%	S AA	AA
	C 0429	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
	C 0430	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 0431	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0432	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 0650	VCKY CZ1CB473KY	CAPACITOR 47NF 16V 10%	S AA	AA
	C 0701	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
	C 0702	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
	C 0703	VCAAPE03J107MY	ELEC C 100UF 20% 6.3V 6.5VPI00M	S AA	AC
	C 0737	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0739	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0740	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0741	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
	C 0761	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B1J05KAFT	S AA	AA
	C 0763	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B1J05KAFT	S AA	AA
	C 1114	VCKYTV1EB224KY	CERAM C 220NF 25V 10%	S AA	AA
	C 1133	VCKY CZ1EF104ZY	CAPACITOR 100NF 25V 20%	S AA	AA
	C 1134	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
	C 1135	VCKYTV1EB224KY	CERAM C 220NF 25V 10%	S AA	AA
	C 1327	RC-KZA115WJZZY	CERAM C 2,2UF 10V GRM188B31A225KE33D	S AA	AA
	C 1328	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 1329	VCCCCZ1HH101JY	S. CHIP CAP 100PF 50V 5%	S AA	AA
	C 2301	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 2302	VCCCCZ1HH220JY	C CERAM 22PF 50V 5%	S AA	AA
	C 2303	VCKY CZ1CF104ZY	CAPACITOR 100NF 16V 20%	S AA	AA
	C 2861	VCKY CZ1HB222KY	CAPACITOR 2,2NF 50V 10%	S AA	AA
	C 3397	VCKY CY0JB105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
	C 3398	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3399	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
	C 3401	RC-KZA115WJZZY	CERAM C 2,2UF 10V GRM188B31A225KE33D	S AA	AA

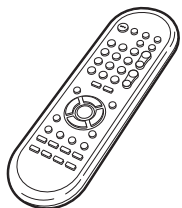
	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
	C 3402	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
	C 3403	VCKY CY1CB224KY	CAPACITOR GRM39B 224K 16 (1608)SMD	S AA	AA
	C 3404	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 3405	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 3406	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3407	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 3408	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 3409	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3410	VCKY CY0JB105KY	CAPACITOR GRM39B 105K 6.3 (1608)SMD	S AA	AA
	C 3411	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3412	VCKY CZ1HB222KY	CAPACITOR 2,2NF 50V 10%	S AA	AA
	C 3426	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3428	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3429	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 3430	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 3431	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B1J05KAFT	S AA	AA
	C 3432	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3434	RC-KZA237WJZZY	CERAM C EMK212B1J06KGFT 10UF 16V 10%	S AA	AA
	C 3435	VCCCCZ1HH470JY	C CERAM 47PF 50V 5%	S AA	AA
	C 3436	VCCCCZ1HH330JY	S. CHIP CAP 33PF 50V 5%	S AA	AA
	C 3437	RC-KZA621WJQZY	CERAM C 1uF 25V TMK107B1J05KAFT	S AA	AA
	C 3438	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
	C 3439	RC-KZA114WJZZY	CERAM C 1UF 25V GRM188B31E105AK75D	S AA	AA
	C 3440	VCEASK1CN227MY	ELEC C 220UF 20% 16V MVY16VC220MF80	S AA	AB
	DM 0001	VCKYTV1CF225ZY	C CERAM 2,2UF 16V 2125MSMD - ONLY FOR LC32LE220E	S --	--
RESISTORS					
	R 0004	VRS-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S AA	AA
	R 0007	VRS-CY1JF122FY	RES 0603 1,2KOHM 1% 1/10W SMD	S AA	AA
	R 0008	VRS-CY1JF202FY	RES 0603 2KOHM 1% 1/10W SMD	S AA	AA
	R 0009	VRS-CZ1JF473JY	RES 0402 47KOHM 5% 1/16W SMD	S AA	AA
	R 0010	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
	R 0011	VRS-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S AA	AA
	R 0012	VRS-CY1JF222JY	RES 0603 2,2KOHM 5% 1/10W SMD	S AA	AA
	R 0013	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0014	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
	R 0015	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
	R 0021	VRS-CY1JF105JY	RES 0603 1MOHM 5% 1/10W SMD	S AA	AA
	R 0022	VRS-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
	R 0023	VRS-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S AA	AA
	R 0024	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
	R 0025	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
	R 0026	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
	R 0027	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
	R 0031	VRS-CY1JF391FY	RES 0603 390 OHM 1% 1/10W SMD	S AA	AA
	R 0033	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0034	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0035	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0036	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0037	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0038	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0039	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0040	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0041	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0042	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0043	VRS-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
	R 0044	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0045	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0046	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0047	VRS-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S AA	AA
	R 0049	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0050	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0053	VRS-CY1JF330JY	RES 0603 33 OHM 5% 1/10W SMD	S AA	AA
	R 0055	VRS-CY1JF102FY	CHIP RESISTOR 1% 1K	S AA	AA
	R 0056	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0057	VRS-CY1JF102FY	CHIP RESISTOR 1% 1K	S AA	AA
	R 0058	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
	R 0060	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA
	R 0061	VRS-CZ1JF223JY	RES 0402 22KOHM 5% 1/16W SMD	S AA	AA
	R 0063	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
	R 0066	VRS-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S AA	AA
	R 0068	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
	R 0073	VRS-CY1JF102JY	RES 0603 1KOHM 5% 1/10W SMD	S AA	AA
	R 0076	VRS-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S AA	AA
	R 0079	VRS-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S AA	AA
	R 0080	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0082	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0084	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0086	VRS-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S AA	AA
	R 0088	VRS-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S AA	AA
	R 0092	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0101	VRS-CY1JF333JY	RES 0603 33KOHM 5% 1/10W SMD	S AA	AA
	R 0102	VRS-CY1JF333JY	RES 0603 33KOHM 5% 1/10W SMD	S AA	AA
	R 0103	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0104	VRS-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S AA	AA
	R 0105	VRS-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S AA	AA

	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
R 0421	VR5-CY1JF472JY	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 0422	VR5-CY1JF472JY	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 0423	VR5-CY1JF220JY	RES 0603 22 OHM 5% 1/10W SMD	S	AA	AA
R 0424	VR5-CY1JF103JY	RES 0603 10KOHM 5% 1/10W SMD	S	AA	AA
R 0425	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S	AA	AA
R 0426	VR5-CY1JF473JY	RES 0603 47KOHM 5% 1/10W SMD	S	AA	AA
R 0427	VR5-CY1JF472JY	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 0447	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S	AA	AA
R 0448	VR5-CZ1JF152JY	RES 0402 1,5KOHM 5% 1/16W SMD	S	AA	AA
R 0450	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0452	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0453	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0455	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0482	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S	AA	AA
R 0484	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S	AA	AA
R 0485	VR5-CZ1JF472JY	RES 0402 4,7KOHM 5% 1/16W SMD	S	AA	AA
R 0486	VR5-CZ1JF472JY	RES 0402 4,7KOHM 5% 1/16W SMD	S	AA	AA
R 0498	VR5-CZ1JF472JY	RES 0402 4,7KOHM 5% 1/16W SMD	S	AA	AA
R 0500	VR5-CZ1JF472JY	RES 0402 4,7KOHM 5% 1/16W SMD	S	AA	AA
R 0501	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S	AA	AA
R 0502	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 0503	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0504	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 0505	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 0509	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0510	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 0511	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 0512	VR5-CZ1JF100JY	RES 0402 10 OHM 5% 1/16W SMD	S	AA	AA
R 0513	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0522	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S	AA	AA
R 0530	VR5-CZ1JF620JY	RES 0402 62 OHM 5% 1/16W SMD	S	AA	AA
R 0534	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0535	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S	AA	AA
R 0536	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S	AA	AA
R 0537	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S	AA	AA
R 0538	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S	AA	AA
R 0540	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0542	VR5-CZ1JF470JY	RES 0402 47 OHM 5% 1/16W SMD	S	AA	AA
R 0543	VR5-CZ1JF331JY	RES 0402 330 OHM 5% 1/16W SMD	S	AA	AA
R 0544	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0545	VR5-CZ1JF331JY	RES 0402 330 OHM 5% 1/16W SMD	S	AA	AA
R 0546	VR5-CZ1JF392JY	RES 0402 3,9KOHM 5% 1/16W SMD	S	AA	AA
R 0547	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S	AA	AA
R 0549	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S	AA	AA
R 0550	VR5-CZ1JF472JY	RES 0402 4,7KOHM 5% 1/16W SMD	S	AA	AA
R 0551	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0554	VR5-CZ1JF102JY	RES 0402 1KOHM 5% 1/16W SMD	S	AA	AA
R 0555	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 0556	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 0560	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0568	VR5-CZ1JF822JY	RES 0402 8,2KOHM 5% 1/16W SMD	S	AA	AA
R 0702	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 0703	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1001	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1002	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1003	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1004	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1005	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1006	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1007	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1008	VRK-SB1FF330JY	RES 33 OHM 5% 1/32W SMD	S	AA	AA
R 1009	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1010	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1011	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1012	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1013	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1014	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1015	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1016	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1017	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1018	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1019	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1020	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1021	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1022	VRK-SB1FF560JY	RES 56 OHM 5% 1/32W SMD	S	AA	AA
R 1109	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1121	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1123	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1174	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1228	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 1318	VR5-CY1JF472JY	RES 0603 4,7KOHM 5% 1/10W SMD	S	AA	AA
R 1514	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S	AA	AA
R 1517	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD	S	AA	AA
R 1525	VR5-CZ1JF220JY	RES 0402 22 OHM 5% 1/16W SMD	S	AA	AA
R 1526	VRK-SB1FF220JY	RES 22 OHM 5% 1/32W SMD	S	AA	AA
R 1527	VRK-SB1FF220JY	RES 22 OHM 5% 1/32W SMD	S	AA	AA

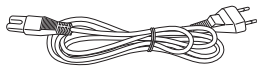
	REF No.	PARTS	DESCRIPTION	* SN CODE	EX CODE
R 2081	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S	AA	AA
R 2082	VR5-CZ1JF151JY	RES 0402 150 OHM 5% 1/16W SMD	S	AA	AA
R 2314	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 2315	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8133	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S	AA	AA
R 8136	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S	AA	AA
R 8137	VR5-CZ1JF822JY	RES 0402 8,2KOHM 5% 1/16W SMD	S	AA	AA
R 8138	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S	AA	AA
R 8139	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S	AA	AA
R 8140	VR5-CY1JF100JY	RES 0603 10 OHM 5% 1/10W SMD	S	AA	AA
R 8141	VR5-CY1JF273JY	S. CHIP RES. 27-OHM TAPED	S	AA	AA
R 8142	VR5-CZ1JF221JY	RES 0402 220 OHM 5% 1/16W SMD	S	AA	AA
R 8143	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 8144	VR5-CZ1JF101JY	RES 0402 100 OHM 5% 1/16W SMD	S	AA	AA
R 8145	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S	AA	AA
R 8146	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8147	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S	AA	AA
R 8148	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8149	VR5-CZ1JF473JY	RES 0402 47KOHM 5% 1/16W SMD	S	AA	AA
R 8150	VR5-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 8159	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8164	VR5-CY1JF104JY	RES 0603 100KOHM 5% 1/10W SMD	S	AA	AA
R 8166	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S	AA	AA
R 8167	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S	AA	AA
R 8168	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S	AA	AA
R 8169	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8170	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8171	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8173	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S	AA	AA
R 8174	VR5-CZ1JF471JY	RES 0402 470 OHM 5% 1/16W SMD	S	AA	AA
R 8175	VR5-CZ1JF333JY	RES 0402 33KOHM 5% 1/16W SMD	S	AA	AA
R 8176	VR5-CZ1JF103JY	RES 0402 10KOHM 5% 1/16W SMD	S	AA	AA
R 8178	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S	AA	AA
R 8179	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S	AA	AA
R 8180	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 8181	VR5-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S	AA	AA
R 8184	VR5-CZ1JF104JY	RES 0402 100KOHM 5% 1/16W SMD	S	AA	AA
DM 0002	VR5-CZ1JF000JY	RES 0402 0 OHM 5% 1/16W SMD - ONLY FOR LC32LE220E	S	AA	AA
MISCELLANEOUS PARTS					
FB 0014	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S	AA	AA
FB 0015	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	AA	AA
FB 0016	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	AA	AA
FB 0017	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	AA	AA
FB 0018	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S	AA	AA
FB 0019	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S	AA	AA
FB 0020	VR5-CY1JF000JY	RES 0603 0 OHM 5% 1/10W SMD	S	AA	AA
FB 0201	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0202	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0203	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0204	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0205	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0206	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0207	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0208	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 0301	RBLN-A528WJZZY	FERRITE HI0805N600R-10	S	--	--
FB 1501	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 1502	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
FB 1503	RBLN-A529WJZZY	FERRITE MI0603M121R-10	S	--	--
J 1003	QJAKJ4024WJZZ	HEADPHONE CKX-035-347DBZ	S	AA	AB
J 1301	QJAKJ00047CEZZ	EARPHONE JACK HSJ03908-72	S	AA	AG
J 1305	QJAKEA086WJ00	JACK RCA-101H(BK)	S	AA	AB
J 1401	QJAKKA007WJZZ	JACK RCA--512HAT-00A-03	S	AB	AE
J 4001	QJAKJ4024WJZZ	HEADPHONE CKX-035-347DBZ	S	AA	AB
J 8101	QSOCZA205WJQZ	SOCKET UAR27-4K50L	S	AA	AB
LUG1701	QLUGH4A006WJZZY	METALLIC LUG SD01138-21	S	AA	AA
LUG1702	QLUGH4A006WJZZY	METALLIC LUG SD01138-21	S	AA	AA
LUG1703	QLUGH4A006WJZZY	METALLIC LUG SD01138-21	S	AA	AA
LUG1704	QLUGH4A006WJZZY	METALLIC LUG SD01138-21	S	AA	AA
P 1701	QPLGN0185FJZZY	CONNECTOR SI38-PH-SM4-TB	S	AA	AC
P 2302	QPLGN4916WJZZY	CONNECTOR A1251WRO-SPS-5E JTW	S	AA	AB
P 2701	QPLGNA160WJZZY	CONNECTOR SM04B-PASS-TBTL(F)	S	AA	AB
P 3072	QPLGNA324WJZZY	CONNECTOR SM04B-GHS-(FL)(SN)	S	AA	AB
SC 1101	QSOCZA161WJZZ	SCART R68-11H	S	AA	AD
SC 1501	QSOCNA229WJZZ	SOCKET DHR20-151F200/H-DBR10-A0020D	S	AB	AE
SC 1901	QSOCZA175WJZZY	CONNECTOR HDMI A111924-A-15-R	S	AB	AE
SC 1902	QSOCZA175WJZZY	CONNECTOR HDMI A111924-A-15-R	S	AB	AE
SC 1903	QSOCZA175WJZZY	CONNECTOR HDMI A111924-A-15-R	S	AB	AE
SC 4401	QCNQMA332WJSA	C.I.CARD SLOT	S	AD	AK
SC 8202	QCNQWA899WJQZY	CONNECTOR FI-RE515-HF-J-R1500	S	AB	AF
	PRDARA577WJFW	BL CHASSIS	S	AA	AD
	TLABN0134BMZZ	CHASSIS LABEL 35X10MM	S	AA	AA
	PSPACZ213WJKZ	HEAT CONDUCTOR SPACER	S	AA	AD

REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
LE210EB/LE220EB DUNTKF640FM**				
LED Unit				
DIODES				
D 5103	RH-PXA195WJQZY	LED DIODE SMD BLUE/RED SML522BUWT86 ROHM	S	AA AC
CAPACITORS				
C 5102	RC-KZA237WJZZY	CERAM C EMK2128J106KGFT 10UF 16V 10%	S	AA AA
RESISTORS				
R 5101	VRS-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S	AA AA
R 5108	VRS-CZ1JF121JY	RES 0402 120 OHM 5% 1/16W SMD	S	AA AA
R 5109	VRS-CY1JF101JY	RES 0603 100 OHM 5% 1/10W SMD	S	AA AA
MISCELLANEOUS PARTS				
P 5101	QPLGNA916WJZZY	CONNECTOR A1251WR0-5P5-5E JTW	S	AA AB
RMCS101	RRMCUA053WJZZ	R/C RECEIVER UNIT	S	AA AD
SLD5101	PSLDPA076WJFW	SHIELD CASE	S	AA AA
DUNTKF534WE02				
KEY Unit				
RESISTORS				
R 4051	VRD-RA28E822JY	RES 8.2KOHM 5% 1/8W	S	AA AA
R 4052	VRD-RA28E123JY	RES 12K OHM 5% 1/8W	S	AA AA
R 4053	VRD-RA28E822JY	RES 8.2KOHM 5% 1/8W	S	AA AA
R 4054	VRD-RA28E123JY	RES 12K OHM 5% 1/8W	S	AA AA
MISCELLANEOUS PARTS				
P 4051	QCNCWA012JDE0	CONNECTOR 54B-EH	S	AA AA
S 4051	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4052	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4053	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4054	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4055	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4056	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
S 4057	QSW-K0003AJZZ+	SWITCH EVQ-11A-05R_A MATSUSHITA	S	AA AA
LE210EB/LE220EB RDENCA411WJQZ				
POWER Unit				
	RDENCA411WJQZ	POWER WITHOUT LED DRIVER 32" FSP129-4F01	S	AY BN

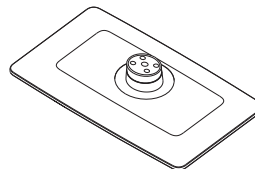
Supplied accessories

Remote control unit
(× 1)

AC cord (× 1)

Product shape varies in
some countries.

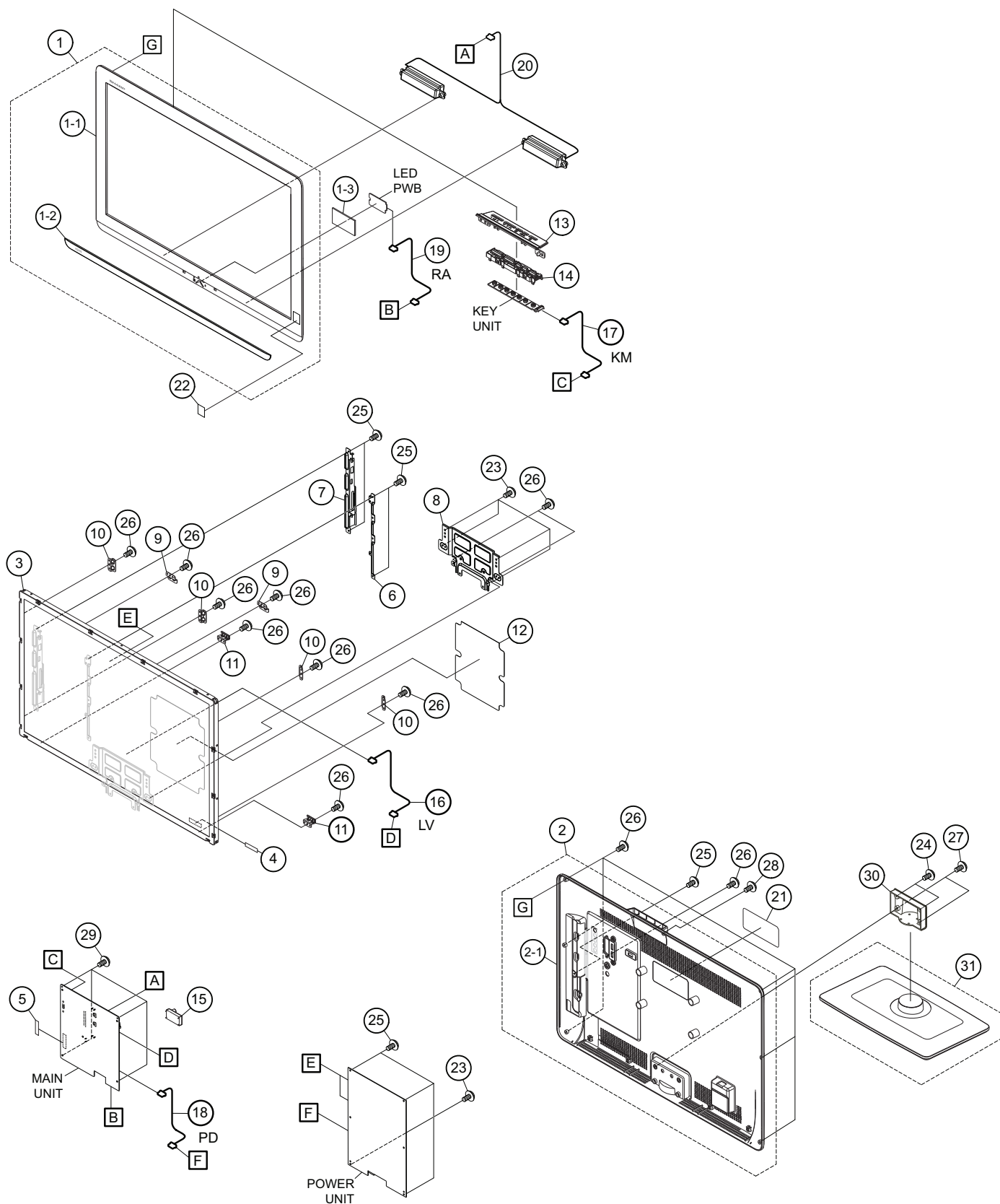
- “AA” size zinc-carbon battery (× 2)
- Operation manual
- Stand unit (x1)



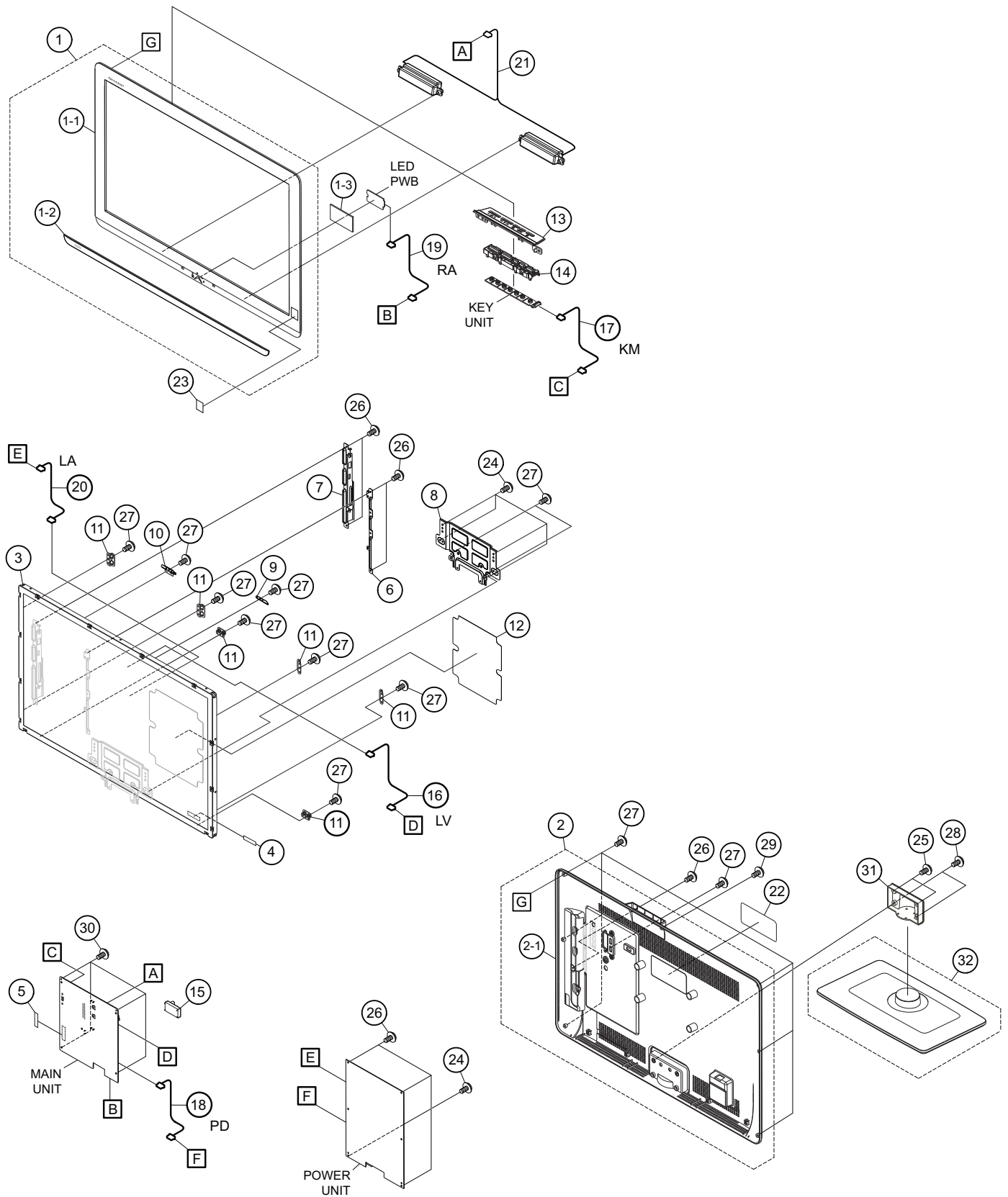
REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
LE210E/LE220E CABINET PARTS LISTING				
1	CCABAC586WJ01	KS-CAB-A LC32LE210E	S	AY BN
1	CCABAC586WJ02	KS-CAB-A LC32LE220E	S	AY BM
1	CCABAC586WJ07	KS-CAB-A LC32LE220 BLUE - ONLY FOR LC32LB220E	S	-- --
1	CCABAC586WJ08	KS-CAB-A LC32LE220 GOLD - ONLY FOR LC32LS220E	S	-- --
1-1	GCABAC586WJ1A	CABINET LE210E/LE220E	S	-- --
1-2	HDECQB503WJ1A	PANEL DECORATION LC32LE210E	S	-- --
1-3	PSHEPB110WJZ	DIFFUSION SHEET	S	AA AB
2	CCAB88824WJ01	KS-CAB-BLC32LE210-220E	S	AT BE
2-1	GCAB88824WJ1A	REAR CABINET	S	-- --
3	RLK315D3LF31Y	PANEL 32" 50Hz FULL HD AVO	S	CN DL
4	TLABN0134BMZZ	PANEL LABEL 35X10MM	S	AA AA
5	TLABN0134BMZZ	CHASSIS LABEL 35X10MM	S	AA AA
6	LANGKC944WJFW	MAIN ANGLE	S	AB AE
7	CANGKD006WJ01	KS-ANGLE	S	AE AN
8	LANGKC939WJFW	ANGLE	S	AD AK
9	LANGKD007WJFW	BRACKET	S	AA AB
10	LANGKC945WJFW	PANEL MODULE BRACKET	S	AA AB
11	LANGKD008WJFW	BRACKET	S	AA AB
12	PZETKA568WJZ	INSULATION SHEET POWER	S	AF AR
13	GCOVAD819WJ1A	KEY COVER	S	-- --
14	JBTN-A887WJ1A	BUTTON	S	-- --
15	RTUDA065WJQZ	TUNER TDTW-S723D	S	BA BR
16	QCNW-L073WJQZ	WIRE (LV)	S	AF AQ
17	QCNW-L069WJQZ	WIRE (KM)	S	AB AE
18	QCNW-L070WJQZ	WIRE (PB)	S	AC AH
19	QCNW-L071WJQZ	WIRE (RA)	S	AB AE
20	QCNW-L239WJQZ	WIRE (LA)	S	AD AK
21	RSP-ZA477WJZZ	SPEAKERS L-R 8 OHM 10W	S	AL AX
22	TLABNC117WJZZ	P_LABEL / MODEL LABEL	S	AA AC
22	TLABZC354WJZZ	ECO LABEL - EXCEPT LC32LE210/220RU	S	AA AB
23	XBBS740P6000	SCREW	S	AA AA
24	XBBS740P10000	SCREW	S	AA AA
25	XBPS730P6W50	SCREW	S	AA AA
26	XEB5730P08000	SCREW	S	AA AA
27	XEB5740P20000	SCREW	S	-- --
28	XEB5930P10000	SCREW	S	AA AA
29	XHP5730P6W50	SCREW	S	AA AA
30	GCOVAD819WJ1A	STAND COVER	S	AG AT
31	CDAT-A686WJ01	KS-STAND	S	AV BG
LE210EB/LE220EB ACCESSORIES PARTS LISTING				
	GCOVAD819WJ01	KS-KEY COVER	S	-- --
	DLAB-C943WE01	LABELS SET LC32LE210EE	S	AA AB
	DLAB-C907WE01	LABELS SET LC32LE220EE	S	AA AB
	DLAB-D033WE01	LABELS SET LC32LE210EK	S	AA AB
	DLAB-D713WE01	LABELS SET LC32LE210E- EASTERN COUNTRIES	S	AA AB
	DLAB-D715WE01	LABELS SET LC32LE210RU	S	AA AB
	DLAB-D722WE01	LABELS SET LC32LB220E	S	AA AB
	DLAB-D723WE01	LABELS SET LC32LS220E	S	AA AB
	PSPAZC595WJZZ	DECORATION ADHESIVE LC32LB/LS220E	S	-- --
	QACCA047WJ3Z	AC CORD / LP21 L57 - ONLY FOR LC32LE210/220E/RU	S	AC AH
	QACCA054WJ3Z	AC CORD / LP61 L57 - ONLY FOR LC32LE210/220E UK COUNTRY	S	AD AM
	RRMCGA896WJ3A	R/C YKF204-019 LE220E	S	AE AP
	TTINS-E769WJZZ	OWNERS MANUAL LC32LE210-220E	S	-- --
	TTINS-E954WJZZ	OWNERS MANUAL LC32LE210-220E- EASTERN COUNTRIES	S	-- --
	TTINS-E955WJZZ	OWNERS MANUAL LC32LE210/LE220RU	S	-- --
	TLABZB310WJZZ	PROCESS LABEL REEL 293m(2.930Unit) 100mm	S	AA AA
	TGAN-A077WJZZ	GUARANTEE FOR LC32LE210RU	S	AA AD
	TGAN-A801WJZZ	GUARANTEE FOR LC32LE210E - UK COUNTRY	S	AA AD
	TGAN-A802WJZZ	GUARANTEE / AQUOS CARE PLAN - UK COUNTRY	S	-- AY
	TGAN-B078WJZZ	GUARANTEE FOR LC32LE210E - EASTERN COUNTRIES	S	-- --
	TGAN-B079WJZZ	GUARANTEE FOR LC32LE210E - EASTERN COUNTRIES	S	-- --
	UBATUA023WJZZ	BATTERY R6UWC/25KD x2	S	AA AC
	HINDPD937WJ1A	INDICATOR PLATE	S	-- --
	LANGKD006WJFW	ANGLE	S	-- --
	HDECQB503WJ1B	PANEL DECORATION LC32LE220E	S	-- --
	HDECQB503WJ1D	PANEL DECORATION LC32LB220E	S	-- --
	HDECQB503WJ1E	PANEL DECORATION LC32LS220E	S	-- --
	HDECQB504WJ1A	LED DECORATION LC32LE210E/LE220E	S	-- --
	HDECQB506WJ1A	LED DECORATION LC32LB220E/LS220E	S	-- --
	6DAI-A686WJ1A	STAND	S	-- --
	TLABM5584BMZZ	PAPER LABEL / ON CARTON BOX	S	AA AB
LE210EB/LE220EB PACKING PARTS LISTING				
	SPAKCF699WJZZ	PACKING CASE	S	AF AP
	SPAKPB56WJZZ	HOSO-PP	S	AC AG
	SPAKXD005WJZZ	PACKING ADD	S	AE AP

REF No.	PARTS	DESCRIPTION	• SN CODE	EX CODE
LE210EB/LE220EB CABINET PARTS LISTING				
1	CCABAC586WJ01	KS-CAB-A LC32LE210E	S	-- --
1	CCABAC586WJ02	KS-CAB-A LC32LE220E	S	-- --
1	CCABAC586WJ07	KS-CAB-A LC32LE220 BLUE - ONLY FOR LC32LB220E	S	-- --
1	CCABAC586WJ08	KS-CAB-A LC32LE220 GOLD - ONLY FOR LC32LS220E	S	-- --
1-1	GCABAC586WJ1A	CABINET LE210E/LE220E	S	-- --
1-2	HDECQB503WJ1A	PANEL DECORATION LE210E	S	-- --
1-3	PSHEPB110WJZ	DIFFUSION SHEET	S	AA AB
2	CCAB88824WJ01	KS-CAB-BLC32LE210-220E	S	AT BE
2-1	GCAB88824WJ1A	REAR CABINET	S	-- --
3	RLK315D3LF22Y	PANEL 32" FHD CMILED V315H3-L3	S	CH DE
4	TLABN0134BMZZ	PANEL LABEL 35X10MM	S	AA AA
5	TLABN0134BMZZ	CHASSIS LABEL 35X10MM	S	AA AA
6	LANGKC944WJFW	MAIN ANGLE	S	AB AE
7	CANGKD006WJ01	KS-ANGLE	S	AE AN
8	LANGKC939WJFW	ANGLE	S	AD AK
9	LANGKD030WJFW	BRACKET	S	AA AB
10	LANGKD080WJFW	BRACKET	S	AA AB
11	LANGKC945WJFW	PANEL MODULE BRACKET	S	AA AB
12	PZETKA568WJZ	INSULATION SHEET POWER	S	AF AR
13	GCOVAD819WJ1A	KEY COVER	S	-- --
14	JBTN-A887WJ1A	BUTTON	S	-- --
15	RTUDA065WJQZ	TUNER TDTW-S723D	S	BA BR
16	QCNW-L240WJQZ	WIRE (LV)	S	AF AR
17	QCNW-L069WJQZ	WIRE (KM)	S	AB AE
18	QCNW-L070WJQZ	WIRE (PB)	S	AC AH
19	QCNW-L071WJQZ	WIRE (RA)	S	AB AE
20	QCNW-L239WJQZ	WIRE (LA)	S	AD AK
21	RSP-ZA477WJZZ	SPEAKERS L-R 8 OHM 10W	S	AL AX
22	TLABNC117WJZZ	P_LABEL / MODEL LABEL	S	AA AC
23	TLABZC354WJZZ	ECO LABEL - EXCEPT LC32LE210/220RU	S	AA AB
24	XBBS740P6000	SCREW	S	AA AA
25	XBBS740P10000	SCREW	S	AA AA
26	XBP5730P6W50	SCREW	S	AA AA
27	XEB5730P08000	SCREW	S	AA AA
28	XEB5740P20000	SCREW	S	-- --
29	XEB5930P10000	SCREW	S	AA AA
30	XHP5730P6W50	SCREW	S	AA AA
31	GCOVAD819WJ1A	STAND COVER	S	AG AT
32	CDAT-A686WJ01	KS-STAND	S	AV BG
LE210EB/LE220EB ACCESSORIES PARTS LISTING				
	GCOVAD819WJ01	KS-KEY COVER	S	-- --
	DLAB-D009WE01	LABELS SET LC32LE210EB	S	-- --
	DLAB-D007WE01	LABELS SET LC32LE220EB	S	-- --
	DLAB-D034WE01	LABELS SET LC32LE210EBK	S	-- --
	DLAB-D714WE01	LABELS SET LC32LE210E- EASTERN COUNTRIES	S	-- --
	DLAB-D717WE01	LABELS SET LC32LE210RUB	S	-- --
	DLAB-D718WE01	LABELS SET LC32LE220E- EASTERN COUNTRIES	S	-- --
	DLAB-D724WE01	LABELS SET LC32LB220EB	S	-- --
	DLAB-D725WE01	LABELS SET LC32LS220EB	S	-- --
	PSPAZC595WJZZ	DECORATION ADHESIVE LC32LB/LS220E	S	-- --
	QACCA047WJ3Z	AC CORD / LP21 L57 - ONLY FOR LC32LE210/220EB/RUB	S	AC AH
	QACCA054WJ3Z	AC CORD / LP61 L57 - ONLY FOR LC32LE210/220EB UK COUNTRY	S	AD AM
	RRMCGA896WJ3A	R/C YKF204-019 LE220E	S	AE AP
	TTINS-E769WJZZ	OWNERS MANUAL LC32LE210-220E	S	-- --
	TTINS-E954WJZZ	OWNERS MANUAL LC32LE210-220E- EASTERN COUNTRIES	S	-- --
	TTINS-E955WJZZ	OWNERS MANUAL LC32LE210/LE220RU	S	-- --
	TLABZB310WJZZ	PROCESS LABEL REEL 293m(2.930Unit) 100mm	S	AA AA
	TGAN-A077WJZZ	GUARANTEE FOR LC32LE210RU	S	AA AD
	TGAN-A801WJZZ	GUARANTEE FOR LC32LE210E - UK COUNTRY	S	AA AD
	TGAN-A802WJZZ	GUARANTEE / AQUOS CARE PLAN - UK COUNTRY	S	-- AY
	TGAN-B078WJZZ	GUARANTEE FOR LC32LE210E - EASTERN COUNTRIES	S	-- --
	TGAN-B079WJZZ	GUARANTEE FOR LC32LE210E - EASTERN COUNTRIES	S	-- --
	UBATUA023WJZZ	BATTERY R6UWC/25KD x2	S	AA AC
	HINDPD937WJ1A	INDICATOR PLATE	S	-- --
	LANGKD006WJFW	ANGLE	S	-- --
	HDECQB503WJ1B	PANEL DECORATION LE220E	S	-- --
	HDECQB503WJ1D	PANEL DECORATION LC32LB220E	S	-- --
	HDECQB503WJ1E	PANEL DECORATION LC32LS220E	S	-- --
	HDECQB504WJ1A	LED DECORATION LE210E/LE220E	S	-- --
	HDECQB506WJ1A	LED DECORATION LC32LB220E/LS220E	S	-- --
	6DAI-A686WJ1A	STAND	S	-- --
	TLABM5584BMZZ	PAPER LABEL / ON CARTON BOX	S	AA AB
LE210EB/LE220EB PACKING PARTS LISTING				
	SPAKCF699WJZZ	PACKING CASE	S	AF AP
	SPAKPB56WJZZ	HOSO-PP	S	AC AG
	SPAKXD005WJZZ	PACKING ADD	S	AE AP

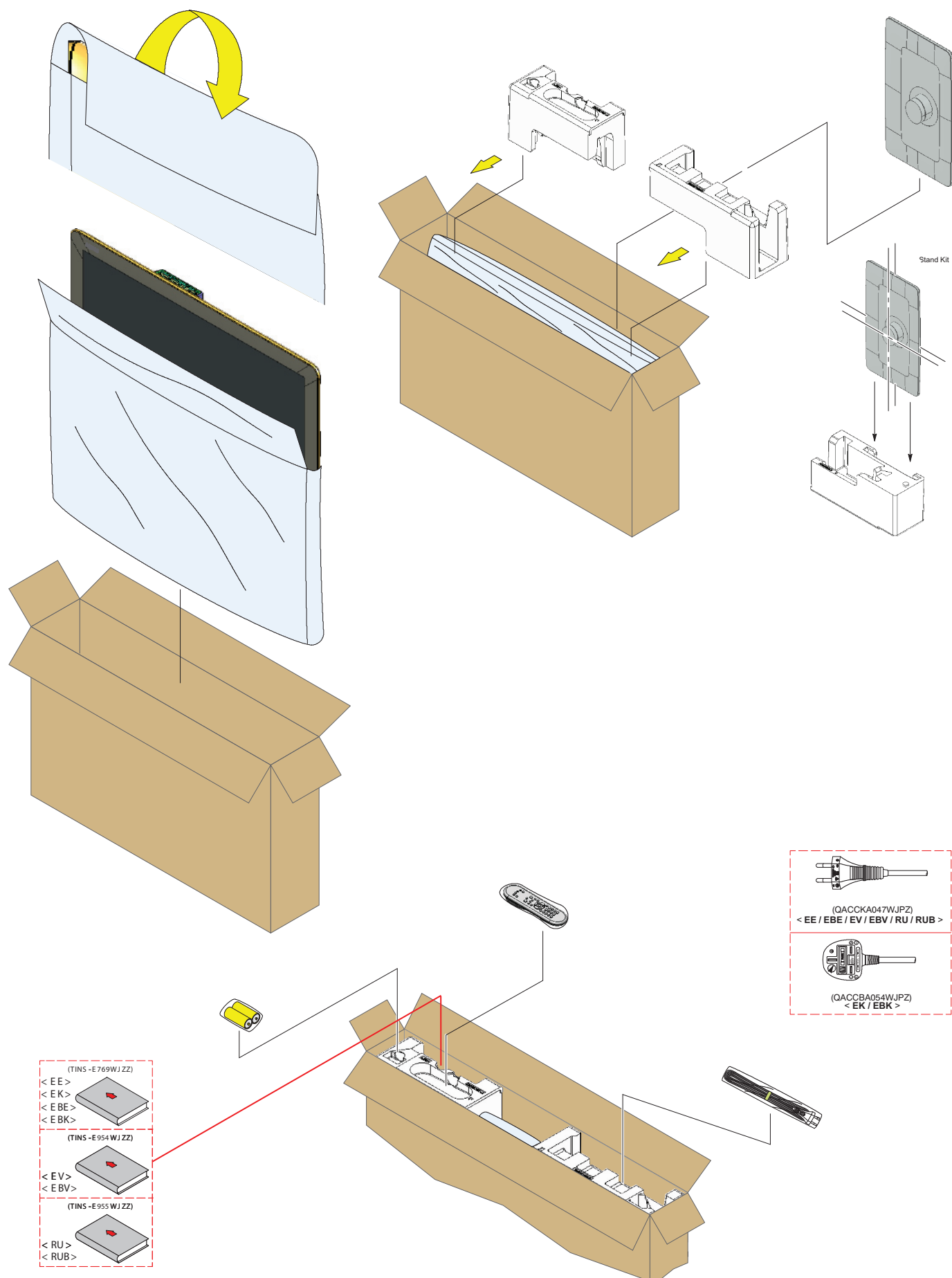
CABINET AND MECHANICAL PARTS LC32LE210E & LC32Lx220E (AUO PANEL)



CABINET AND MECHANICAL PARTS LC32LE210EB & LC32Lx220EB (CMI PANEL)



PACKING OF THE SET





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